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UNITED STATES DEPARTMENT OF AGRICULTURE

LIST OF TECHNICAL WORKERS IN THE DEPARTMENT OF AGRICULTURE, AND OUTLINE OF DEPARTMENT FUNCTIONS

1928

OFFICE OF PERSONNEL AND BUSINESS ADMINISTRATION
MISCELLANEOUS PUBLICATION No. 32

UNITED STATES DEPARTMENT OF AGRICULTURE
MISCELLANEOUS PUBLICATION No. 32

WASHINGTON, D. C. JULY 1, 1928

LIST OF TECHNICAL WORKERS IN THE DEPARTMENT OF AGRICULTURE, AND OUTLINE OF DEPARTMENT FUNCTIONS

1928

Compiled in the Office of
Personnel and Business Administration

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON
1928

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KEY TO ABBREVIATIONS

Abstr., Abstractor.
Acct., Accounts, Accountant.
Activ., Activities.
Admin., Administration, Administrative, Administrator.
Agr., Agricultural, Agriculturist.
Agron., Agronomist.
Agt., Agent.
An., Animal.
Apicult., Apicultural, Apiculturist.
Arbor., Arboriculture, Aboriculturist.
Assoc., Associate, Association.
Asst., Assistant.
Atty., Attorney.
Aud., Auditor, Auditing.
Bact., Bacteriology, Bacteriological, Bacteriologist.
Bibl., Bibliography, Bibliographical, Bibliographer.
Biochem., Biochemical, Biochemist.
Biol., Biological, Biologist.
Biophys., Biophysical, Biophysicist.
Bot., Botany, Botanical, Botanist.
Bur., Bureau.
Bus., Business.
Chem., Chemistry, Chemical, Chemist.
Co., County.
Coll., College.
Collab., Collaborator.
Comn., Commission.
Comr., Commissioner.
Conserv., Conservation.
Const., Construction.
Consult., Consulting, Consultant.
Coop., Cooperation, Cooperative, Cooperator.
Cytol., Cytological, Cytologist.
Dem., Demonstration.
Dendrol, Dendrologist.
Dep., Deputy.
Dept., Department.
Dir., Director.
Dist., District.
Div., Division.
Drain., Drainage.
Ecol., Ecologist.
Econ., Economic, Economics, Economist.
Ed., Editorial, Editor.
Engr., Engineer, Engineering.
Ent., Entomology, Entomological, Entomologist.
Equip., Equipment.
Erad., Eradication.
Exam., Examiner.
Exec., Executive.
Exp., Experiment, Experimental.
Expl., Explorer.
Ext., Extension.
Fert., Fertilizers. Fertility.
For., Forest, Forestry, Forester.
Forecr., Forecaster.
Geol., Geologist, Geological.
Hdqrs., Headquarters.
Hort., Horticulture, Horticultural, Horticulturist.
Husb., Husbandry, Husbandman.
Hwy., Highway.
Illustr., Illustrator.
Ind., Industry.
Insp., Inspection, Inspector.
Inv., Investigations, Investigator.
Irrig., Irrigation.
Jr., Junior.
Lab., Laboratory, Laboratorian.
Libr., Library, Librarian.
Log., Logging.
Mfg., Manufacturing.
Mech., Mechanic, Mechanical.
Med., Medical.
Met., Meteorology, Meteorological, Meteorologist.
Mgr., Manager.
Mgt., Management.
Mkt., Market, Marketing.
Microan., Microanalyst.
Micros., Microscopist.
Misc., Miscellaneous.
Mycol., Mycologist.
Nat., National.
Natur., Naturalist.
Nematol, Nematologist.
Nutr., Nutrition.
Off., Office, Officer.
Oper., Operations.
Org., Organic, Organization.
Parasit., Parasitology, Parasitologist.
Path., Pathology, Pathological, Pathologist.
Pharmacol., Pharmacology, Pharamacologist.
Phys., Physical, Physicist.
Physiol., Physiology, Physiological, Physiologist.
Pl., Plant, Planting.
Pomol., Pomology, Pomological, Pomologist.
Pred., Predatory.
Prin., Principal.
Prod., Production, Products.
Prop., Propagation, Propagating, Propagator.
Pubs., Publications.
Quar., Quarantine.
Reserv., Reservation, Reservations.

Sci., Scientific, Scientist.
Secy., Secretary.
Silv., Silviculture, Silvicultural, Silviculturist.
Sociol., Sociology.
Spec., Specialist.
Sr., Senior.
Sta., Station.
Stat., Statistics, Statistical, Statistician.
Substa., Substation.
Supt., Superintendent.
Supvr., Supervisor.
Surv., Survey, Surveyor.
Tech., Technical, Technician.
Technol., Technology, Technological, Technologist.
Transp., Transportation.
Univ., University.
Util., Utilization.
Vet., Veterinary, Veterinarian.
Wareh., Warehouse, Warehousing.
Zool., Zoology, Zoologist.

Note.—The asterisk (*) following names in "List of Workers" is used to indicate married women (Mrs.).

OUTLINE OF FUNCTIONS OF UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

The Secretary of Agriculture is charged with the work of promoting agriculture in its broadest sense. He exercises general supervision and control over the affairs of the department and formulates and establishes the general policies to be pursued by its various branches. The general administrative staff of the department under the "Office of the Secretary" includes, in addition to the Secretary's immediate office, the offices of the Assistant Secretary, the Directors of Scientific, Regulatory, and Extension Work, the Director of Personnel and Business Administration, the Director of Information, and the Solicitor. The Assistant Secretary assists the Secretary in the general supervision of the work of the department and acts for the Secretary in his absence. Each of the five directors, reporting directly to the Secretary, has general supervision over all the work of the department of the type which the title of his position implies. Under the organization of the Office of the Secretary are included, in addition to the general administrative branches mentioned, the Office of Information, Office of Experiment Stations, Extension Service, the Library, and the Office of the Solicitor.

OFFICE OF PERSONNEL AND BUSINESS ADMINISTRATION

This office has general direction and supervision of the personnel and of the business operations of the department as a whole, including the coordination and improvement of such business activities of its various bureaus and offices as personnel administration, organization, budget and fiscal matters, purchases and supplies, traffic, housing, and care of buildings and equipment. This office conducts the business of the department with the Civil Service Commission, the Personnel Classification Board, the Employees' Compensation Commission, the Bureau of Efficiency, the Bureau of the Budget, the General Accounting Office, the retirement division of the Pension Bureau, the various boards operating under authority of the Chief Coordinator, and similar agencies.

OFFICE OF INFORMATION

The Office of Information supervises the expenditure of the appropriations for printing and binding for the department; conducts all business of the department transacted with the Government Printing Office; has general supervision of all editing, printing, indexing, illustrating, binding, and distribution of publications, and the maintenance of mailing lists; and maintains an addressing, duplicating, and mailing section to serve the various bureaus of the department. This office secures the circulation in popular form of the discoveries and recommendations of the scientists, specialists, and field workers of the department; gives out to the public press agricultural facts taken from publications and official orders, and also from oral statements of specialists, this material being presented in such form as to attract public attention, be easily understandable, and lead to the adoption of methods recommended; and keeps in close touch with correspondents and other writers, providing suggestions and material for articles. It also furnishes daily, through broadcasting from many stations in all parts of the United States, authentic information of practical use to farmers and others concerning the discoveries made by the department and the farm practices recommended by it; answers by radio questions in all fields of agriculture and home economics; and furnishes special information on gardening to boys and girls.

LIBRARY

The department library, with its branch libraries in the various bureaus, contains approximately 205,000 volumes on agriculture and the related sciences and receives currently 3,300 periodicals.

The dictionary card catalogue of the main library, containing more than a half million cards, is a record of the book resources of the whole department. It is supplemented by several extensive special indexes which are maintained by the various bureau libraries. These together form the most comprehensive bibliography of agriculture and the related sciences available in the United States. A series of Bibliographical Contributions is issued by the library in mimeographed form, and a separate series of Agricultural Economics Bibliographies is issued by the Bureau of Agricultural Economics library.

OFFICE OF EXPERIMENT STATIONS

The Office of Experiment Stations exercises supervision over the operations of the State agricultural experiment stations under Federal appropriations authorized by the Hatch, Adams, and Purnell Acts for research, and affords such advice and assistance as will best promote the efficiency of these activities. It also collects and disseminates information regarding similar institutions throughout the world. The experiment stations of the Department of Agriculture in Alaska, Hawaii, Porto Rico, Guam, and the Virgin Islands are also conducted under the general direction of this office.

EXTENSION SERVICE

The Extension Service cooperates with the State agricultural colleges in the conduct of extension work in agriculture and home economics under the Smith-Lever Act, and acts as an agency for coordinating the extension activities of the several bureaus of the department with similar work carried on by the State agricultural colleges. It conducts demonstrations on reclamation projects to assist settlers in making a success of their farm enterprises. It also has charge of the preparation, installation, and display of agricultural exhibits at State, interstate, and international fairs and of the motion-picture activities of the department.

WEATHER BUREAU

The Weather Bureau has charge of the forecasting of the weather; the issue and display of weather forecast and storm, cold-wave, frost, and flood warnings; the gauging and reporting of river stages; the collection and transmission of marine intelligence for the benefit of commerce and navigation; the collection and furnishing of meteorological information and forecasts, including upper-air observations, for the benefit of air navigation; the reporting of temperature and rainfall conditions for agricultural interests; and the taking of such meteorological observations as may be necessary to determine and record the climatic conditions of the United States.

BUREAU OF ANIMAL INDUSTRY

The Bureau of Animal Industry is primarily concerned with the protection and development of the livestock and meat industries of the United States. It conducts scientific investigations of the causes, prevention, and treatment of diseases of domestic animals; investigates the existence of communicable diseases of such animals, and aids in their control or eradication; and carries on investigations and experiments in animal husbandry and in the feeding and breeding of animals. It also is charged with the administration of the meat inspection act, the animal quarantine acts, the 28-hour law, the diseased animal transportation acts, the virus-serum-toxin act, and the act relating to the supervision of the business in interstate commerce of packers, public stockyard markets, and commission men, traders, and other agencies operating in the public stockyards markets of the United States.

BUREAU OF DAIRY INDUSTRY

The Bureau of Dairy Industry conducts investigations of the various problems of dairy production, manufacture, and utilization, and the manufacture and utilization of dairy by-products. New principles and methods developed in the investigational work of the bureau are introduced into the field. The bureau also supervises the inspection of renovated-butter factories.

BUREAU OF PLANT INDUSTRY

The activities of the Bureau of Plant Industry are primarily devoted to plant research and related problems. This work includes the study of destructive plant diseases and the establishment of methods of eradication and control; the improvement of crop, ornamental, or other plants by breeding and selection; the introduction of promising seeds and plants from foreign countries; the improvement of methods of plant production; and the utilization of plants of economic value.

Campaigns to control or eradicate certain plant diseases are conducted in cooperation with the authorities of the States concerned. The 13 States interested in spring-wheat production are cooperating to eradicate the common barberry throughout this area as a means of controlling epidemics of black stem rust of wheat. The New England, Great Lakes, and Northwestern States are cooperating in the eradication of the black currant and related plants as a means of controlling or preventing the spread of blister rust of white pine. The Gulf States are cooperating in the eradication of the canker of citrus trees and fruits.

The regulatory activities of the bureau are limited to the enforcement of the Federal seed act.

In addition to the experimental activities of the bureau at the Arlington (Va.) Experiment Farm, which is immediately adjacent to the District of Columbia, the bureau is operating field stations or laboratories in practically all the major cropping regions of the United States and is maintaining direct cooperative experiments with the State agricultural colleges and experiment stations.

FOREST SERVICE

The Forest Service administers the national forests; cooperates with States in maintaining organized protection of forest lands against fire and in distributing planting stock to farmers for windbreaks, shelter belts, and farm woodlands; conducts investigations in the entire field of forestry, including industrial research and research in forest economics and taxation; diffuses information relating to the best uses of forests and forest products; and, in short, seeks to promote the application of forestry throughout the country on both public and privately owned lands, together with efficient and economical use of the yield. The national forests contain approximately 159,000,000 acres of Government-owned land and nearly one-fourth of the timber in the United States, besides forage and recreation resources of great public value. The administration of the national forests aims to coordinate and develop to the utmost the use of all their resources in the best public interest. Technical methods of forestry are applied to the growing and harvesting of timber. Livestock grazing is scientifically regulated so as to obtain range conservation along with full use of the annual growth of forage. Sustained and, where possible, increased yields of timber and forage are obtained. Water from the protected watersheds is made available for power, irrigation, and municipal and domestic supply. Provision is made for many other forms of national-forest land use under regulation. Systematic protection is provided against fire and other destructive agencies.

BUREAU OF CHEMISTRY AND SOILS

The work of this bureau is organized along three major lines: (1) Chemical and technological research, (2) soil investigations, and (3) fertilizer and fixed-nitrogen investigations.

(1) Under "chemical and technological research" is grouped the work relating to the application of the science of chemistry to the improvement of agriculture, development of processes for the utilization of agricultural products, and biological investigations of foods, including studies of their physiological effects on the human organism; experiments on the utilization, for coloring, medicinal, and technical purposes of raw materials; development of improved processes in the production of rosin and turpentine; investigations in the development of methods of manufacturing insecticides and fungicides; improvement of methods for dehydrating materials used for food; and development of means to prevent farm fires and dust explosions and resulting fires, including fires in grain mills and elevators, cotton gins, cotton-oil mills, etc.

(2) Under "soil investigations" is grouped all the soil work of the bureau, including the classification and mapping of the soils of the United States,

studies of the agricultural value of soils, their characteristics in relation to productiveness, their origin and development, and their chemical and mechanical compositions; research in soil microbiology; investigations of the response of soils to fertilizers and other soil amendments; and studies of soil erosion, with a view to determining the principles which should guide in the control and prevention of soil erosion.

(3) Under "fertilizer and fixed-nitrogen investigations" are grouped studies of the fertilizer resources of the country and methods of manufacturing fertilizer materials, including nitrogen and its fixation, phosphates, potash, concentrated fertilizers, organic waste products, and miscellaneous soil amendments.

BUREAU OF ENTOMOLOGY

The Bureau of Entomology conducts investigations in economic entomology, involving studies of the life history and habits of insects injurious and those beneficial to agriculture, horticulture, and arboriculture, with a view to developing practical methods for destroying those found to be injurious and promoting the increase and spread of those found to be beneficial. It studies bee culture and beekeeping practices and investigates the life history and control of insects affecting the health of man and domestic animals.

BUREAU OF BIOLOGICAL SURVEY

The Bureau of Biological Survey is concerned with the wild life of the country. It conducts operations and disseminates information through five divisions, three of which are engaged chiefly with research, one with control measures, and one with the administration of reservations and laws for the conservation of wild life. The investigations and recommendations made have due regard for the interests of agriculture, horticulture, stock raising, forestry, and recreation, and for the needs of the wild life itself. Studies include biological surveys of major areas, the life histories, geographic distribution, classification, abundance, and food habits and natural feeding grounds of native birds, mammals, and other wild vertebrates, and native plant relationships, as a basis for the educational, control, service, and regulatory work of the bureau. Expert leadership is furnished in cooperation with State and other organizations to limit the destructiveness of injurious species. Investigations are made at wild-life experiment stations and elsewhere for the propagation of valuable species of game birds and of game and fur animals, including domestic rabbits, and of their diseases and parasites; for the improvement of the Alaska reindeer industry; for restocking game coverts; and for developing control methods. Seventy-eight refuges and preserves are maintained in continental United States and outlying territories for wild animals and birds, and several laws are administered for their protection, including, through representation on the Alaska Game Commission, the Alaska game law and the regulations promulgated thereunder by the Secretary of Agriculture.

BUREAU OF PUBLIC ROADS

The Bureau of Public Roads handles the engineering work of the Department of Agriculture. This work is divided into two main branches—highway engineering and agricultural engineering.

(1) The highway engineering branch deals with all highway functions of the department contemplated by the regular appropriations, including the conduct of highway research, and also with the work of administering the Federal-aid and forest road appropriations.

(2) The agricultural engineering branch conducts investigations of farm irrigation and drainage, farm machinery, farm buildings, and other rural engineering problems.

BUREAU OF AGRICULTURAL ECONOMICS

The Bureau of Agricultural Economics conducts studies of the economics of production and marketing, agricultural cooperation, farm organization, farm financial relations, farm labor, land economics, and the problems of rural life. The bureau acquires and disseminates current information regarding the marketing and distribution of farm products, and collects, compiles, summarizes,

interprets, and makes public statistical data relating to agricultural production. Studies are made of marketing methods, conditions, and costs, and with regard to the standardization, transportation, handling, financing, and storage of agricultural products. Reports are prepared and published on the outlook for farm products.

Reports are issued which furnish information on the supply, commercial movement, disposition, and market prices of fruits and vegetables, livestock and meats, dairy and poultry products, hay, feed, seeds, and other products. Information is obtained and published also with regard to the supply of and demand for certain agricultural products in foreign countries. A market inspection service is available in many of the principal producing areas and receiving centers on fruits and vegetables, hay, beans, broomcorn, and other products, and a grading service is conducted on dairy and poultry products and on meats.

Regulatory work is performed in connection with the enforcement of the cotton futures act, cotton standards act, grain standards act, standard container act, standard hamper and basket act, and produce agency act, and the administration of the warehouse act. The Center Market in the city of Washington is also operated by this bureau.

BUREAU OF HOME ECONOMICS

The Bureau of Home Economics conducts scientific studies of problems connected with the home, including questions of food and nutrition, economics, textiles and clothing, and housing and equipment. It assists the homemaker in the solution of these problems by sending information through bulletins, articles for newspapers and magazines, and radio releases. The bureau employs no field agents, but through the home demonstration agents under the Extension Service and the State colleges it is in close contact with homemakers and professional home economics workers throughout the country.

PLANT QUARANTINE AND CONTROL ADMINISTRATION

The Plant Quarantine and Control Administration, which was established as a unit of the department July 1, 1928, brings together the regulatory and control work relating to plants and plant products which has heretofore been conducted by the Federal Horticultural Board, Bureau of Entomology, and Bureau of Plant Industry. The functions of the Federal Horticultural Board are transferred to the administration and the board as previously established has been discontinued. The administration is charged with the enforcement of the following acts of Congress:

(1) The Federal plant quarantine act of 1912.
(2) The act providing for the Mexican border inspection and control service.
(3) The act providing for export certification.
(4) The insect-pest act of 1905.
(5) The terminal inspection act of 1915 (in cooperation with the Post Office Department).

Under the plant quarantine act the administration is responsible for the promulgation, upon approval of the Secretary of Agriculture, and enforcement of quarantines prohibiting or regulating the entry of foreign plants and plant products, with the object of preventing the entry into this country with such products of new and dangerous plant pests, either insect enemies or plant diseases. The administration under this act is responsible similarly for the establishment and maintenance of quarantine districts within the United States for the purpose of preventing the spread of insect pests or plant diseases which may have gained local foothold, and cooperates with the States in measures looking to the extermination of such pests. With respect to certain of the more important domestic quarantines, the administration is charged with large-scale field operations under special appropriations from Congress, with the object of controlling or preventing spread and, in some instances, effecting the extermination of the pest concerned. This applies to such subjects as the corn borer, Japanese beetle, pink bollworm of cotton, citrus canker, and white pine blister rust.

The act providing for the Mexican border inspection and control service is closely related to the Federal plant quarantine act, but gives additional

powers with respect to the control of movement across the Mexican border of railway cars, freight, express, baggage, and other materials, on account of the risk of entry with such cars and materials of the pink bollworm of cotton through the agency of cottonseed.

The act providing for export certification gives authority to inspect and certify exports of plants and plant products to meet the sanitary requirements of foreign countries.

The insect pest act of 1905 prohibits the importation or interstate transportation of insect pests or the use of the United States mails for that purpose.

The terminal inspection act of 1915 is enforced in cooperation with the Post Office Department. This act provides under certain conditions for terminal inspection of plants and plant products transmitted through the mails.

GRAIN FUTURES ADMINISTRATION

The Grain Futures Administration is charged with the carrying out of the provisions of the grain futures act of September 21, 1922, which brings under the supervision of the Federal Government all trading in grain futures at grain exchanges designated as contract markets by the Secretary of Agriculture. The work consists of compiling daily reports of transactions in grain futures from all markets, in checking the dissemination of false and misleading information which affects or tends to affect the prices of grain, and in making general observations of the entire grain marketing machinery, with a view to prevent abnormal fluctuation of prices and to create market conditions which will reflect supply and demand. The results of investigations concerning the operations of contract markets are published from time to time for the information of Congress and the general public. In cooperation with other Government agencies, the administration also makes investigations of grain and grain products and by-products, including supply and demand, cost to the consumer, and handling and transportation charges.

FOOD, DRUG, AND INSECTICIDE ADMINISTRATION

The Food, Drug, and Insecticide Administration enforces the food and drug act, tea act, naval stores act, insecticide act, import milk act, and caustic poison act.

This administration inspects and analyzes samples of the various products coming under its surveillance, both at its field stations and in its laboratories at Washington, to the end that it may detect and cause to be removed from the channels of trade all those that fail to comply with the terms of the acts which it enforces. It assists manufacturers to keep their products in compliance with these acts and institutes legal action against those who violate the law. Its primary function is to protect the consuming public against misbranded or adulterated foods, drugs, naval stores, insecticides, and fungicides, and honest manufacturers against enforced competition with such goods.

TECHNICAL WORKERS IN THE UNITED STATES DEPARTMENT OF AGRICULTURE

OFFICE OF THE SECRETARY

W. M. Jardine, B. S. A., LL. D., *Secy. of Agriculture.*
F. M. Russell, *Asst. to the Secy.*
M. S. Eisenhower, B. S., *Secy. to Mr. Jardine.*
R. W. Dunlap, B. S. A., *Asst. Secy. of Agriculture.*
A. F. Woods, B. S., A. M., D. Agr., LL. D., *Dir. of Scientific Work.*
W. G. Campbell, A. B., LL. B., *Dir. of Regulatory Work.*
C. W. Warburton, B. S. A., D. Sc., *Dir. of Extension Work.*
W. W. Stockberger, B. S., Ph. D., *Dir. of Personnel and Bus. Admin.*
W. A. Jump, *Asst. Dir. and Budget Off.*
Nelson Antrim Crawford, M. A., *Dir. of Information.*
R. W. Williams, LL. B., *Solicitor.*

OFFICE OF PERSONNEL AND BUSINESS ADMINISTRATION

W. W. Stockberger, B. S., Ph. D., *Dir.*
W. A. Jump, *Asst. Dir. and Budget Off.*

Personnel Section.
P. L. Gladmon, *Chief Personnel Off.*

Budget and Finance.
E. H. Bradley, *Asst.*
L. O. Robbins, *Asst.*

Office of Accounts (Office of the Secretary).
F. E. Singleton, *Chief.*

Division of Chief Clerk and Superintendent of Buildings.
R. M. Reese, A. B., *Chief Clerk and Supt.*
(1) Mechanical Shops.
R. L. Swenson, B. S., *Supt.*
(2) Mail and Files.
Joseph Haley, *in charge.*
(3) Telephones and Telegraph.
George W. Conner, *in charge.*
(4) Watch Force.
H. T. O'Neale, *in charge.*

Division of Accounts and Disbursements.
A. Zappone, *Chief of Div.*
(1) Cash Section.
W. J. Nevius, *in charge.*
(2) Bookkeeping Section.
W. R. Fuchs, LL. B., *in charge.*
(3) Examining Section.
H. G. Arnold, *in charge.*

Division of Purchase, Sales, and Traffic.
Alex McC. Ashley, Ph. B., LL. B., A. M., *Chief of Div.*
J. M. Locknane, *Asst. Chief.*
E. E. Forbes, *Traffic Mgr.*

OFFICE OF THE SOLICITOR

R. W. Williams, LL. B., *Solicitor.*
C. W. Boyle, LL. M., *Asst. Solicitor.*

Division of Food and Drugs, Insecticides and Fungicides, Federal Seed, Tea Inspection, Naval Stores, Virus-Serum Control, Meat Inspection, Federal Import Milk, Federal Caustic Poison, and Compilation of Laws.

Patrick D. Cronin, A. B., LL. D., *Atty. in charge.*
J. B. O'Donnell, LL. M., *Atty.*
J. F. Moore, LL. B., *Atty.*
O. H. Gates, LL. B., *Atty.*
F. Tharin, D. C. L., *Atty.*
R. E. Mikesell, *Atty.*
W. Rawlins, LL. M., M. P. L., *Atty.*

Division of National Forests, Grain Futures, Cotton Futures, Cotton Standards, Federal Warehouse, Excess Wool Profits, Food Products, Inspection, Produce Agency, Standard Container, Administration of Center Market, and Packers and Stockyards.

Fred Lees, A. B., LL. B., *Atty., in charge.*
J. C. Brooke, B. S., LL. B., *Atty.*
C. E. Miles, LL. B., *Atty.*
J. S. Bohannan, LL. B., *Atty.*
H. H. Clarke, LL. M., *Atty.*
H. N. Foss, LL. B., *Atty.*

Division of Acquisition of Lands.
Arthur H. McConville, LL. M., *Atty., in charge.*
J. L. Carr, LL. B., *Atty.*

Division of Animal and Plant Quarantines, Federal Aid Roads, Twenty-eight Hour Law, Bee Imports, and Agricultural Colleges and Experiment Stations.

Thomas G. Shearman, A. M., LL. B., *Atty., in charge.*
B. B. Jenkins, LL. B., *Atty.*
A. McNaught, LL. B., *Atty.*

Division of Wild Life Conservation, Claims, Fiscal, Personnel, Leases, Contracts, and Patents.

John P. Wenchel, A. B., LL. B., *Atty., in charge.*
G. L. Hoffman, LL. B., *Atty.*
A. J. Decker, LL. M., M. P. L., *Atty.*
R. H. Seaton, LL. M., *Atty.*
I. G. Menikheim, LL. M., *Atty.*
FIELD HEADQUARTERS.
Minnesota—Winona:
J. A. Murphy, LL. B., *Atty.*
E. C. Hotchkiss, LL. B., *Asst.*
L. S. French, *Abstr.*
H. B. Fitzsimmons, *Abstr.*

Division of Pleading, Practice, and Procedure.

James B. Horigan, A. M., LL. B., *Atty., in charge.*

District Officers Stationed in the Field

California—San Francisco:
H. P. Dechant, A. B., LL. B.
Colorado—Denver:
W. J. Ise, LL. M.
Montana—Missoula:
C. S. Brothers, LL. M.
New Mexico—Albuquerque:
E. S. French, LL. B., M. P. L.
Oregon—Portland:
W. F. Staley, B. S., LL. M.
Utah—Ogden:
M. Thompson, LL. B.

Title Attorneys Stationed in the Filed.

Arkansas—Hot Springs:
C. B. Wilson, LL. B.
North Carolina—Franklin:
John Awtrey, A. B., LL. B.
Pennsylvania—Warren:
H. A. Lamprey, LL. B.
Tennessee:
Athens—
J. C. Fletcher.
Johnson City—
A. S. Grigg, B. S., LL. B.
West Virginia—Elkins:
J. C. Laurent.

OFFICE OF INFORMATION

Nelson Antrim Crawford, M. A., *Dir. of Information, in charge.*

Publications.

————, *Chief.*
M. C. Merrill, S. M., A. M., Ph. D., *Ed. Chief.*

Publications—Continued.

H. J. Demaree, LL. B., *Admin. Asst.*
(1) Editorial Staff.
E. C. Powell, *Sr. Ed.*
T. Swann Harding, B. S., *Ed. Sci. Pubs.*
Falba L. Johnson, M. A., *Asst. Ed.*
Charlotte L. White, M. A., *Asst. Ed.*
Mabel G. Hunt, B. A., *Ed. of Indexes.*
Mary A. Bradley, M. A., *Asst. Ed. of Indexes.*
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Beyer Aune, B. Agr., *Assoc. Agron.* (Bur. of Pl. Ind.), *in charge.*
Spearfish (beef cattle inv., in coop. with Exp. Stations in Northern Great Plains area)—
M. B. Johnson, *Agt. in An. Husb. (Coop.), in charge.*
Texas:
Sonora (beef cattle inv., in coop. with Texas Exp. Sta. and Bur. of Agr. Econ.)—
J. N. Tate, *Collaborator (Bur. of Agr. Econ.), in charge.*
Stamford (beef cattle inv., in coop. with Western Range States)—
V. V. Parr, B. S., *Assoc. An. Husb., in charge.*
Vermont—Middlebury (Morgan Horse Farm; horse, sheep, and beef cattle inv.):
E. B. Krantz, B. S. A., M. S., *Assoc. An. Husb., in charge.*
J. A. Stoehr, B. S., *Jr. An. Husb.*
West Virginia—Lewisburg (beef cattle inv., in coop. with W. Va. Exp. Sta.):
R. H. Tuckwiller, B. S., *Agt. in An. Husb., in charge.*

BIOCHEMIC DIVISION

M. Dorset, B. S., M. D., D. V. M., *Prin. Biochem., Chief.*
James A. Emery, M. D., *Sr. Biochem., Asst. Chief.*

Hog-Cholera Investigations.
Chief of Div. in charge.
Angus D. MacDonald, D. V. M., *Asst. Vet.*
FIELD HEADQUARTERS.
Iowa—Ames:
C. N. McBryde, M. S., M. D., Ph. D., *Assoc. Bact.*
W. B. Niles, D. V. M., *Assoc. Vet., in charge.*
C. G. Cole, D. V. M., *Jr. Vet.*

Biochemical Investigations of Meats.
(1) Nutritive Value.
Ralph Hoagland, B. Agr., *Sr. Biochem.*
George G. Snider, A B., *Sr. Sci. Aid.*

Biochemical Investigations of Meats—Contd.
(2) Changes in Stored Meat and Meat Products; Rancidity.
Wilmer C. Powick, B. S., *Sr. Biochem.*

Tuberculin and Mallein Research.
James A. Emery, M. D., *Sr. Biochem.*
Robert R. Henley, M. S., *Sr. Biochem.*

Tuberculin and Mallein Production.
Percy W. LeDuc, A. B., *Asst. Chem.*
Albert M. West, B. S., *Asst. Bact.*
Joseph W. Etheridge, D. V. M., *Jr. Vet.*
Harry Goldsmith, *Jr. Sci. Aid.*

Investigation of Dips, Disinfectants, and Anthelmintics.
Robt. M. Chapin, B. A., *Sr. Biochem.*
Frank W. Tilley, A. B., M. D., *Sr. Bact.*
Jacob M. Schaffer, M. S., *Assoc. Chem.*
Percy W. LeDuc, A. B., *Asst. Chem.*

FIELD INSPECTION DIVISION

G. W. Pope, D. V. S., *Prin. Vet., Chief.*
W. P. Ellenberger, D. V. S., *Sr. Vet., Asst. Chief.*
H. E. Smith, D. V. M., *Assoc. Vet.*

International Inspection and Quarantine.
California:
Calexico—
J. C. Pace, D. V. S., *Jr. Vet., Insp. in charge.*
Los Angeles—
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge.*
San Diego—
J. E. Cloud, D. V. S., *Asst. Vet., Insp. in charge.*
San Francisco—
H. H. Hicks, M. D. V., *Assoc. Vet., Insp. in charge.*
England—London:
R. W. Tuck, D. V. S., *Vet., Insp. in charge.*
Louisiana—New Orleans:
G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*
Maine:
Calais—
R. D. Hyde, D. V. M., *Asst. Vet., Insp. in charge.*
Houlton:
I. H. Kaufman, D. V. M., *Asst. Vet., Insp. in charge.*
Maryland—Baltimore:
R. W. Culbert, D. V. S., *Assoc. Vet., Insp. in charge.*
Massachusetts—Boston:
A. F. Staub, D. V. M., D. V. S., *Vet., Insp. in charge.*
Michigan:
Detroit—
R. F. Vermilya, D. M. C., *Assoc. Vet., in charge.*
Port Huron—
C. H. Canfield, D. V. M., *Asst. Vet., Insp. in charge.*

International Inspection and Quarantine—Continued.

Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*

New Jersey—Clifton:
James Fleming, V. S., M. D., *Vet., Insp. in charge.*

New York:
Albany—
G. H. Woolfolk, D. V. S., *Asso. Vet., Insp. in charge.*
Buffalo—
B. P. Wende, D. V. S., *Vet., Insp. in charge.*
New York—
James Fleming, V. S., M. D., *Vet., Insp. in charge.*
Ogdensburg—
C. O. Benson, D. V. S., *Asst. Vet., Insp. in charge.*
Rouses Point—
D. G. Shumway, V. M. D., *Asst. Vet., Insp. in charge.*
Watertown—
————, *Vet. Insp., Insp. in charge.*

North Dakota—Bismarck:
H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge.*

Oregon—Portland:
M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*

Pennsylvania—Philadelphia:
Thomas Castor, V. M. D., *Assoc. Vet., Insp. in charge.*

Porto Rico—Rio Piedras:
Juan Veras Catala, V. S., *Vet. Insp., Insp. in charge.*

Texas:
El Paso—
T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge.*
Houston—
C. F. Palmer, D. V. S., *Assoc. Vet., Insp. in charge.*
San Antonio—
Wm. Thompson, M. D. C., *Assoc. Vet., Insp. in charge.*

Vermont—Newport:
J. E. Spindler, V. M. D., *Asst. Vet., Insp. in charge.*

Washington:
Seattle—
C. L .Norris, D. V. S., *Assoc. Vet., Insp. in charge.*
Spokane—
E. D. Kennedy, D. V. S., *Assoc. Vet., Insp. in charge.*

Scabies and Dourine Eradication.

California—Sacramento:
R. Snyder, M. D. C., *Assoc. Vet., Insp. in charge.*

Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*

Scabies and Dourine Eradication—Contd.

Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge.*

Kentucky—Frankfort:
W. F. Biles, D. V. M., *Assoc. Vet., Insp. in charge.*

Louisiana—Baton Rouge:
C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge.*

Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*

Nebraska—Lincoln:
A. H. Francis, D. V. M., *Assoc. Vet., Insp. in charge.*

New Mexico—Albuquerque:
F. L. Schneider, B. S., D. V. S., *Vet., Insp. in charge.*

North Dakota—Bismarck:
H. H. Cohenour, M. D. V., *Assoc. Vet., Insp. in charge.*

Oklahoma—Oklahoma City:
L. J. Allen, D. V. S., *Vet., Insp. in charge.*

South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge.*

Texas—Fort Worth:
H. L. Darby, D. V. S., *Vet., Insp. in charge.*

Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge.*

Wyoming—Cheyenne:
J. T. Dallas, B. S. A., D. V. M., *Assoc. Vet., Insp. in charge.*

DIVISION OF HOG-CHOLERA CONTROL

Directed by Assoc. Chief of Bur.
T. P. White, D. V. S., *Sr. Vet., Asst Chief.*

FIELD STATIONS (work conducted in coop. with State authorities).

Alabama—Birmingham:
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*

Arkansas—Little Rock:
Hugh L. Fry, V. M. D., *Asst. Vet., Insp. in charge.*

California—Sacramento:
Rudolph Snyder, D. V. M., *Assoc. Vet., Insp. in charge.*

Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*

Florida—Tallahassee:
J. G. Fish, D. V. M., *Asst. Vet., Insp in charge.*

Georgia—Atlanta:
A. L. Hirleman, D. V. M., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Idaho—Boise:
W. A. Sullivan, D. V. M., *Asst. Vet., Insp. in charge.*

Illinois—Springfield:
James McDonald, D. V. M., *Assoc. Vet., Insp. in charge.*

Indiana—Indianapolis:
J. E. Gibson, D. V. M., *Assoc. Vet., Insp. in charge.*

Iowa—Des Moines:
J. A. Barger, D. V. S., *Vet., Insp. in charge.*

Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge.*

Kentucky—Frankfort:
W. F. Biles, D. V. M., *Assoc. Vet., Insp. in charge.*

Louisiana—Baton Rouge:
C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge.*

Maryland—College Park:
I. K. Atherton, V. S., *Assoc. Vet. (coop.), Insp. in charge.*

Michigan—Lansing:
T. S. Rich, V. S., *Vet., Insp. in charge.*

Mississippi—Jackson:
Hartwell Robbins, D. V. S., *Assoc. Vet., Insp. in charge.*

Missouri—Jefferson City:
Ralph Graham, D. V. M., *Vet. Insp. (coop.), Insp. in charge.*

Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*

Nebraska—Lincoln:
A. H. Francis, D. V. M., *Assoc. Vet., Insp. in charge.*

North Carolina—Raleigh:
W. C. Dendinger, D. V. M., *Assoc. Vet., Insp. in charge.*

Ohio—Columbus:
A. J. De Fosset, D. V. M., *Assoc. Vet., Insp. in charge.*

Oklahoma—Oklahoma City:
Leslie J. Allen, V. S., *Vet. Insp. in charge.*

South Carolina—Columbia:
W. K. Lewis, D. V. M., *Vet. (coop.), Insp. in charge.*

South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge.*

Tennessee—Nashville:
H. M. O'Rear, D. V. M., *Assoc. Vet., Insp. in charge.*

Texas—Fort Worth:
H. L. Darby, D. V. S., *Vet., Insp. in charge.*

Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

Virginia—Richmond:
R. E. Brookbank, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge.*

West Virginia—Charleston:
H. M. Newton, D. V. M., *Assoc. Vet., (coop.), Insp. in charge.*

Wisconsin—Madison:
J. S. Healy, M. D. V., *Vet., Insp. in charge.*

MEAT INSPECTION DIVISION

R. P. Steddom, V. S., *Prin. Vet., Chief.*

A. J. Pistor, D. V. S., *Sr. Vet., Asst. Chief.*

E. C. Joss, B. S., M. D. C., *Sr. Vet., Asst. Chief.*

Wm. H. Smith, jr., V. M. D., *Sr. Vet., in charge of special work.*

F. W. Meyst, D. V. S., *Sr. Vet., in charge of Label Section.*

Robert H. Kerr, B. S., *Sr. Chem., in charge of Meat Insp. Labs.*

G. H. Parks, *Assoc. Sanitary Engr.*

FIELD STATIONS.

Alabama—Birmingham:
W. H. Meadors, D. V. S., *Asst. Vet., Insp. in charge.*

Arizona—Phoenix:
A. J. Maloney, D. V. M., *Asst. Vet., Insp. in charge.*

Arkansas:
Fort Smith—
W. B. Nichols, *Prin. Lay Insp., in charge.*
Helena—
B. L. McCaslin, *Prin. Lay Insp., in charge.*

California:
Los Angeles—
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge.*
San Diego—
Joel E. Cloud, V. S., *Asst. Vet., Insp. in charge.*
San Francisco—
H. H. Hicks, M. D. V., *Assoc. Vet., Insp. in charge.*
A. E. Graham, Ph. B., *Lab. Insp., in charge of Lab.*

Colorado:
Denver—
T. A. Shipley, D. V. S., *Assoc. Vet., Insp. in charge.*
Pueblo—
E. Himsel, D. V. M., *Asst. Vet., Insp. in charge.*

Connecticut:
Bridgeport—
Fred Hern, *Prin. Lay Insp., in charge.*
Hartford—
W. E. Jennings, *Prin. Lay Insp., in charge.*
New Haven—
S. A. Selby, D. V. S., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Delaware—Wilmington:
T. J. Kean, D. V. M., M. D., *Assoc. Vet., Insp. in charge.*
District of Columbia—Washington:
H. K. Walter, D. V. M., *Assoc. Vet., Insp. in charge.*
Florida—Jacksonville:
E. F. Haven, D. V. S., *Asst. Vet., Insp. in charge.*
Georgia:
Atlanta—
O. W. Seher, D. V. M., *Asst. Vet., Insp. in charge.*
Augusta—
J. E. Lovejoy, D. V. S., *Assoc. Vet., Insp. in charge.*
Moultrie—
J. R. Aufente, D. V. S., *Asst. Vet., Insp. in charge.*
Idaho:
Boise—
A. J. Creely, D. V. M., *Asst. Vet., Insp. in charge.*
Lewiston—
F. G. Miller, D. V. M., *Asst. Vet., Insp. in charge.*
Moscow—
A. S. Martin, D. V. M., *Asst. Vet., Insp. in charge.*
Sandpoint—
E. G. Pigman, D. V. M., *Asst. Vet., Insp. in charge.*
Illinois:
Alton—
James Johnston, V. S., M. D., *Asst. Vet., Insp. in charge.*
Chicago—
Herman Busman, V. S., M. D., *Vet., Insp. in charge.*
C. T. N. Marsh, *Assoc. Chem., in charge of Lab.*
Jacksonville—
J. Robinson, D. V. M., *Asst. Vet., Insp. in charge.*
National Stock Yards—
C. F. Payne, V. S., *Vet., Insp. in charge.*
Peoria—
A. N. Hughes, M. D. V., *Asst. Vet., Insp. in charge.*
Indiana:
Anderson—
Charles Corson, D. V. M., *Asst. Vet., Insp. in charge.*
Evansville—
H. J. Hoyman, M. D. V., *Asst. Vet., Insp. in charge.*
Fort Wayne—
H. J. Boyer, D. V. M., Asst. Vet., *Insp. in charge.*
Frankfort—
G. W. Knorr, M. D. C., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Indiana—Continued.
Indianapolis—
G. W. Butler, V. S., *Assoc. Vet., Insp. in charge.*
La Fayette—
J. M. Jehle, M. D. C., *Asst. Vet., Insp. in charge.*
Logansport—
C. H. Deisel, D. V. M., *Asst. Vet., Insp. in charge.*
Madison—
R. R. Newman, D. V. S., *Asst. Vet., Insp. in charge.*
Richmond—
C. O. Wagoner, V. S., *Asst. Vet., Insp. in charge.*
Terre Haute—
L. H. Allen, M. D. V., *Asst. Vet., Insp. in charge.*
Iowa:
Cedar Rapids—
A. M. Casper, M. D. C., *Assoc. Vet., Insp. in charge.*
Davenport—
Joseph Hannon, M. D. C., *Asst. Vet., Insp. in charge.*
Des Moines—
C. W. Deming, D. V. M., *Asst. Vet., Insp. in charge.*
Dubuque—
H. H. Dell, D. V. S., *Asst. Vet., Insp. in charge.*
Mason City—
C. L. Elliott, D. V. M., *Assoc. Vet., Insp. in charge.*
Ottumwa—
F. T. Suit, D. V. M., *Assoc. Vet., Insp. in charge.*
Sioux City—
E. S. Dickey, D. V. S., *Assoc. Vet., Insp. in charge.*
Waterloo—
J. E. Shelton, D. V. S., *Assoc. Vet., Insp. in charge.*
Kansas:
Arkansas City—
F. E. Haworth, V. M. D., *Asst. Vet., Insp. in charge.*
Kansas City—
————, *Vet., Insp. in charge.*
H. C. Kershner, *Assoc. Lab. Insp., in charge of Lab.*
Leavenworth—
C. B. Henderson, D. V. S., *Asst. Vet., Insp. in charge.*
Pittsburg—
W. K. Howard, M. D. C., *Asst. Vet., Insp. in charge.*
Topeka—
F. S. Bingham, D. V. S., *Asst. Vet., Insp. in charge.*
Wichita—
W. C. Herrold, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Kentucky:

Henderson—

R. H. Nutt, D. V. M., *Asst. Vet., Insp. in charge.*

Louisville—

J. B. Johnson, D. V. M., *Assoc. Vet., Insp. in charge.*

Louisiana:

New Orleans—

G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*

Shreveport—

Levi Bryant, *Prin. Lay Insp., in charge.*

Maine:

Auburn—

L. K. Green, V. M. D., *Asst. Vet., Insp. in charge.*

Houlton—

I. H. Kaufman, D. V. M., *Asst. Vet., Insp. in charge.*

Portland—

D. D. Callahan, *Prin. Lay Insp., in charge.*

Maryland:

Baltimore—

R. W. Culbert, M. D. V., *Assoc. Vet., Insp. in charge.*

Cumberland—

J. C. Shafer, *Prin Lay Insp., in charge.*

Frederick—

W. F. Osborn, D. V. S., *Asst. Vet., Insp. in charge.*

Massachusetts:

Boston—

A. F. Staub, D. V. M., *Vet., Insp. in charge.*

Haverhill—

L. E. Merrill, *Prin. Lay Insp., in charge.*

Springfield—

H. E. Brown, M. D. V., *Assoc. Vet., Insp. in charge.*

Worcester—

M. T. Perry, M. D. V., *Assoc. Vet., Insp. in charge.*

Michigan:

Detroit—

R. F. Vermilya, D. M. C., *Assoc. Vet., Insp. in charge.*

Menominee—

L. E. Epple, V. S., *Asst. Vet., Insp. in charge.*

Minnesota:

Albert Lea—

O. A. Stingley, B. Sc., D. V. S., *Assoc. Vet., Insp. in charge.*

Austin—

E. W. Barthold, M. D. C., *Assoc. Vet., Insp. in charge.*

Duluth—

Charles E. Mootz, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Minnesota—Continued.

Fergus Falls—

M. L. Davenport, D. V. M., *Asst. Vet., Insp. in charge.*

South St. Paul—

G. E. Totten, D. C. M., *Vet., Insp in charge.*

Winona—

L. A. Wilson, D. V. M., *Asst. Vet., Insp. in charge.*

Mississippi:

Cedars—

H. Singleton, D. V. S., *Asst. Vet., Insp. in charge.*

Natchez—

J. B. Harris, *Prin. Lay Insp., in charge.*

Vicksburg—

J. A. O'Brien, *Prin. Lay Insp., in charge.*

Missouri:

St. Louis—

T. B. Pote, D. V. S., *Assoc. Vet., Insp. in charge.*

C. H. Swanger, B. S., *Assoc. Chem., in charge of Lab.*

South St. Joseph—

B. J. Stockler, D. V. M., *Assoc. Vet., Insp. in charge.*

Montana—Butte:

Albert E. Evans, M. D. C., *Asst. Vet., Insp. in charge.*

Nebraska:

Nebraska City—

G. A. Kay, D. C. M., *Asst. Vet., Insp. in charge.*

Omaha—

J. S. Jenison, D. V. M., *Vet., Insp. in charge.*

E. A. Boyer, B. S., *Assoc. Chem., in charge of Lab.*

F. P. St. Clair, D. V. M., M. D., *Vet., Traveling Vet. Insp.*

Nevada—Reno:

L. C. Butterfield, D. C. M., *Assoc. Vet., Insp. in charge.*

New Hampshire:

Keene—

T. W. Carnachan, M. R. C. V. S., *Asst. Vet., Insp. in charge.*

Manchester—

W. F. Quigley, *Prin. Lay Insp., in charge.*

New Jersey:

Jersey City—

E. H. Baumann, V. M. D., *Assoc. Vet,. Insp. in charge.*

Newark—

A. McBride, M. D. C., *Assoc. Vet., Insp. in charge.*

Paterson—

J. Huelsen, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

New York:
Albany—
G. H. Woolfolk, D. V. S., *Assoc. Vet., Insp. in charge.*
Buffalo—
B. P. Wende, V. S., *Vet., Insp. in charge.*
New York—
D. R. Gillies, V. S., M. D., *Vet., Insp. in charge.*
W. F. Schroeder, B. S., *Assoc. Chem., in charge of Lab.*
Pearl River—
F. A. Grenfell, D. V. M., *Assoc. Vet., Insp. in charge.*

North Carolina:
Asheville—
Herbert Bryan, D. V. M., *Asst. Vet., Insp. in charge.*
Charlotte—
Jacob Vogel, *Prin. Lay Insp., in charge.*
Wilmington—
A. H. Carpenter, *Prin. Lay Insp., in charge.*

North Dakota:
Fargo—
B. C. Johnson, D. V. M., *Asst. Vet., Insp. in charge.*
Grand Forks—
J. H. Kitzhofer, D. V. S., *Asst. Vet., Insp. in charge.*

Ohio:
Athens—
P. J. Huffman, jr., D. V. S., *Asst. Vet., Insp. in charge.*
Cincinnati—
Frank Jelen, D. V. S., *Assoc. Vet., Insp. in charge.*
Cleveland—
H. H. George, D. V. S., *Assoc. Vet., Insp. in charge.*
Columbus—
O. W. Everly, D. V. S., *Asst. Vet., Insp. in charge.*
Dayton—
C. H. Herrold, M. D. V., V. S., *Assoc. Vet., Insp. in charge.*
Piqua—
A. N. Smith, V. M. D., *Asst. Vet., Insp. in charge.*
Washington Court House—
Albert Wiltshire, *Prin. Lay Insp., in charge.*
Youngstown—
H. L. Bollinger, *Prin. Lay Insp., in charge.*
Zanesville—
W. O. McHugh, V. S., *Asst. Vet., Insp. in charge.*

Oklahoma—Oklohama City:
Jens Madsen, M. D., D. V. M., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Oregon—Portland:
M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*

Pennsylvania:
Allentown—
G. W. Famous, V. M. D., *Asst. Vet., Insp. in charge.*
Erie—
E. P. Barnhart, D. V. M., *Asst. Vet., Insp. in charge.*
Hallstead—
S. M. Page, V. M. D., *Asst. Vet., Insp. in charge.*
Harrisburg—
W. C. Siegmund, D. V. S., *Asst. Vet., Insp. in charge.*
Philadelphia—
Thomas Castor, V. M. D., *Assoc. Vet., Insp. in charge.*
Pittsburgh—
C. J. Millen, D. V. M., *Assoc. Vet., Insp. in charge.*
Pittston—
J. R. Donnelly, V. S., M. D. V., *Asst. Vet., Insp. in charge.*
Pottsville—
G. E. Repp, M. D. C., *Asst. Vet., Insp. in charge.*

Rhode Island—Providence:
H. M. Smith, M. D. V., *Assoc. Vet., Insp. in charge.*

South Carolina—Greenville:
P. E. Jentoft, *Prin. Lay Insp., in charge.*

South Dakota:
Huron—
P. P. Taylor, D. V. M., *Asst. Vet., Insp. in charge.*
Sioux Falls—
C. J. Young, D. V. S., *Assoc. Vet., Insp. in charge.*
Watertown—
L. P. McArdle, D. V. M., *Asst. Vet., Insp. in charge.*

Tennessee:
Chattanooga—
F. H. Collins, V. M. D., *Asst. Vet., Insp. in charge.*
Knoxville—
S. A. King, D. V. S., *Asst. Vet., Insp. in charge.*
Memphis—
C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge.*
Morristown—
C. P. Hart, V. S., *Asst. Vet., Insp. in charge.*
Nashville—
E. F. Cary, D. V. S., *Assoc. Vet., Insp. in charge.*
Union City—
J. H. Byerley, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Texas:

El Paso—

T. A. Bray, D. V. S., *Asst. Vet., Insp. in charge.*

Fort Worth—

J. S. Grove, V. S., *Assoc. Vet., Insp. in charge.*

Houston—

C. F. Palmer, V. S., *Assoc. Vet., Insp. in charge.*

Texarkana—

H. G. Potter, *Prin. Lay Insp., in charge.*

Utah:

Ogden—

W. D. Wright, M. D. C., *Asst. Vet., Insp. in charge.*

Salt Lake City—

E. P. Durham, D. V. M., *Asst. Vet., Insp. in charge.*

Vermont:

Bellows Falls—

E. S. Ring, D. V. S., *Asst. Vet., Insp. in charge.*

Hyde Park—

L. B. Whitney, D. V. S., *Asst. Vet., Insp. in charge.*

Virginia:

Norfolk—

J. M. Harris, *Prin. Lay Insp., in charge.*

Richmond—

Henry Marshall, D. V. M., *Assoc. Vet., Insp. in charge.*

Washington:

Seattle—

C. L. Norris, D. V. S., *Assoc. Vet., Insp. in charge.*

Spokane—

E. D. Kennedy, D. V. S., *Assoc. Vet., Insp. in charge.*

Tacoma—

J. S. Kelly, D. V. S., *Assoc. Vet., Insp. in charge.*

Walla Walla—

C. A. Johnston, D. V. S., *Asst. Vet., Insp. in charge.*

Yakima—

S. V. Ewers, D. V. S., *Asst. Vet., Insp. in charge.*

West Virginia—Wheeling:

A. R. Smith, V. M. D., *Assoc. Vet., Insp. in charge.*

Wisconsin:

Eau Claire—

Wm. Fotheringham, V. S., *Asst. Vet., Insp. in charge.*

Green Bay—

W. A. Donegan, *Prin. Lay. Insp., in charge.*

Madison—

L. A. Licking, D. C. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Wisconsin—Continued.

Milwaukee—

A. E. Behnke, D. V. M., *Assoc. Vet., Insp. in charge.*

A. D. Bullock, D. V. M., *Vet., Traveling Vet. Insp.*

PACKERS AND STOCKYARDS DIVISION

Directed by Asst. Chief of Bur.

F. W. Miller, D. V. S., *Sr. Econ., Asst. Chief.*

Trade Practices.

F. W. Miller, D. V. S., *Sr. Econ., in charge.*

C. A. Briggs, B. S., M. A., *Weighing Engr.*

P. E. Jamieson, LL. B., LL. M., M. P. L., *Bond Exam.*

Rates and Registration.

G. N. Dagger, B. A., M. A., LL. B., LL. M., *Sr. Econ., in charge.*

H. D. Dozier, A. B., M. A., Ph. D., *Sr. Econ.*

M. O. Cooper, B. S., M. A., LL. B., *Sr. Econ.*

L. H. Camfield, A. B., LL. B., LL. M., M. P. L., *Assoc. Econ.*

S. J. Harvey, *Sr. Stat.*

Interstate Transportation.

S. O. Fladness, D. V. M., *Sr. Vet., in charge.*

A. J. Raub, *Asst. in Livestock Transp. Inv.*

Audits and Accounts.

H. L. Osman, *Exam. of Acct., Acting in charge.*

M. P. Jacoby, *Asst. Acct.*

FIELD HEADQUARTERS.

Colorado—Denver:

B. J. Westinghouse, *Acct.*

District of Columbia—Washington:

M. P. Jacoby, *Asst. Acct.*

Illinois:

Chicago—

H. G. Burns, *Acct.*

A. L. Maguire, *Asst. Acct.*

National Stock Yards—

G. J. Svoboda, *Assoc. Acct.*

G. M. Thomas, *Assoc. Acct.*

Indiana—Indianapolis:

E. J. Bolas, *Assoc. Acct.*

Minnesota—St. Paul:

E. J. Kohler, *Assoc. Acct.*

Missouri—Kansas City:

H. H. Hulbert, *Acct.*

E. R. Hart, *Assoc. Acct.*

Nebraska—Omaha:

A. R. Safeblade, *Acct.*

H. E. Bufkin, *Assoc. Acct.*

Valuation (Field).

Missouri—Kansas City:

H. C. Henrici, B. S., *Chief Valuation Engr.*

A. T. Cushing, M. S., *Valuation Engr.*

Valuation—Continued.
Missouri—Kansas City—Continued.
W. O. Galbreath, B. S., *Assoc. Stockyard Appraiser.*
C. G. Gabelman, *Assoc. Stockyard Appraiser.*
J. E. Johnson, B. S. in C. E., *Assoc. Stockyard Appraiser.*
H. F. Schramm, *Assoc. Stockyard Appraiser.*

Weighing (Field).
Minnesota—South St. Paul:
F. B. Fell, *Assoc. Weight Supvr.*
Ohio—Cincinnati:
W. L. Frank, B. S. in Agr., *Asst. Weight Supvr.*

Stockyard Supervision (Field).
Alabama—Montgomery:
S. M. Price, *Dist. Supvr.*
California—Los Angeles:
C. D. Ashmore, D. V. S., *Dist Supvr.*
Colorado—Denver:
J. Christensen, *Field Asst. to Chief.*
L. W. Krake, *Dist. Supvr.*
Illinois:
Chicago—
V. E. Foster, *Dist. Supvr.*
M. Guillaume, D. V. M., *Assoc. Supvr.*
T. J. Keogh, *Asst. Supvr.*
National Stockyards—
C. S. Jones, B. S., *Dist. Supvr.*
Indiana—Indianapolis:
A. W. Joy, B. S., *Dist. Supvr.*
Iowa—Sioux City:
R. L. Lisle, *Dist Supvr.*
Kansas—Wichita:
O. E. Dyson, D. V. S., *Dist. Supvr.*
Minnesota—South St. Paul:
W. A. Williams, Ph. B., *Dist. Supvr.*
Missouri:
Kansas City—
G. E. Butin, D. V. S., *Dist. Supvr.*
C. D. Boardman, B. S., M. D., *Field Asst.*
South St. Joseph—
J. R. Plumb, A. B., *Dist. Supvr.*
Nebraska—Omaha:
C. F. Walker, *Dist. Supvr.*
New York:
Buffalo—
J. F. Gibbons, *Dist. Supvr.*
New York—
F. J. Miller, *Dist. Supvr.*
Ohio:
Cincinnati—
M. L. Haskell, LL. B., *Dist. Supvr.*
Cleveland—
L. C. Jennings, *Dist. Supvr.*
Oregon—North Portland:
P. McCormick, jr., B. S., *Dist. Supvr.*
Pennsylvania—Pittsburgh:
A. H. Keener, *Acting Dist. Super.*
Tennessee—Nashville:
T. J. Perrin, *Dist, Supvr.*

Stockyard Supervision—Continued.
Texas—Fort Worth:
J. H. Ruff, *Dist. Supvr.*

Public Stockyards Inspection (Field).
Alabama:
Birmingham—
W. H. Meadors, D. V. S., *Asst. Vet., Insp. in charge.*
Montgomery—
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*
California—Los Angeles:
E. P. Schaffter, V. S., *Assoc. Vet., Insp. in charge.*
Colorado—Denver:
W. E. Howe, D. V. M., *Assoc. Vet., Insp. in charge.*
District of Columbia—Washington:
H. K. Walter, V. M. S., *Assoc. Vet., Insp. in charge.*
Georgia—Atlanta:
A. L. Hirleman, D. V. M., *Assoc. Vet., Insp. in charge.*
Illinois:
Chicago—
H. Busman, M. D., V. S., *Vet., Insp. in charge.*
National Stock Yards—
C. F. Payne, V. S., *Vet., Insp. in charge.*
Indiana:
Evansville—
H. J. Hoyman, M. D. C., *Asst. Vet., Insp. in charge.*
Indianapolis—
G. W. Butler, V. S., *Assoc. Vet., Insp. in charge.*
Iowa—Sioux City:
E. S. Dickey, Ph. C., D. V. S., *Assoc. Vet., Insp. in charge.*
Kansas:
Kansas City—
————, *Vet. Insp. in charge.*
Wichita—
W. C. Herrold, V. S., *Assoc. Vet., Insp. in charge.*
Kentucky—Louisville:
J. B. Johnson, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—New Orleans:
G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*
Maryland—Baltimore:
R. W. Culbert, M. D. V., *Vet., Insp. in charge.*
Massachusetts—Boston:
E. A. Crossman, M. D. V., *Insp. in charge.*
Michigan—Detroit:
R. F. Vermilya, D. M. C., *Assoc. Vet., Insp. in charge.*
Minnesota—South St. Paul:
G. E. Totten, D. C. M., *Vet., Insp. in charge.*
Missouri—South St. Joseph:
B. J. Stockler, D. V. M., *Assoc. Vet., Insp. in charge.*

Public Stockyards Inspection—Continued.

Nebraska—Omaha:
J. S. Jenison, D. V. M., *Vet., Insp. in charge.*

New Jersey—Jersey City:
E. H. Baumann, M. S. V., *Assoc. Vet., Insp. in charge.*

New York:
Albany—
G. H. Woolfolk, D. V. S., *Assoc. Vet., Insp. in charge.*
Buffalo—
B. P. Wende, V. S., *Vet., Insp. in charge.*
New York—
D. R. Gillies, M. D., V. S., *Vet., Insp. in charge.*

Ohio:
Cincinnati—
Frank Jelen, D. V. S., *Assoc. Vet., Insp. in charge.*
Cleveland—
H. H. George, D. V. S., *Assoc. Vet., Insp. in charge.*
Dayton—
C. H. Herrold, M. D. V., V. S., *Asst. Vet., Insp. in charge.*

Oklahoma—Oklahoma City:
Jens Madsen, M. D., D. V. M., *Assoc. Vet., Insp. in charge.*

Oregon—Portland:
M. O. Anderson, V. S., *Assoc. Vet., Insp. in charge.*

Pennsylvania:
Lancaster—
H. S. Weber, M. D. V., *Asst. Vet., Insp. in charge.*
Philadelphia—
Thomas Castor, V. M. D., *Assoc. Vet., Insp. in charge.*
Pittsburgh—
C. J. Millen, D. V. M., *Assoc. Vet., Insp. in charge.*

South Dakota—Sioux Falls:
C. J. Young, D. V. S., *Assoc. Vet., Insp. in charge.*

Tennessee:
Chattanooga—
F. H. Collins, V. M. D., *Asst. Vet., Insp. in charge.*
Memphis—
C. L. E. Kerr, D. V. M., *Asst. Vet., Insp. in charge.*
Nashville—
E. F. Cary, D. V. S., *Assoc. Vet., Insp. in charge.*

Texas:
Fort Worth—
H. L. Darby, D. V. S., *Vet., Insp. in charge.*
Houston—
C. F. Palmer, D. V. S., *Assoc. Vet., Insp. in charge.*
San Antonio—
Wm. Thompson, M. D. C., *Assoc. Vet., Insp. in charge.*

Public Stockyards Inspection—Continued.

Utah:
North Salt Lake City—
E. P. Durham, D. V. M., *Asst. Vet., Insp. in charge.*
Ogden—
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

Vermont—Canaan:
J. W. Harner, D. V. M., *Asst. Vet., Insp. in charge.*

Virginia—Richmond:
Henry Marshall, D. V. M., *Assoc. Vet., Insp. in charge.*

Washington:
Seattle—
C. L. Norris, D. V. S., *Assoc. Vet., Insp. in charge.*
Spokane—
E. D. Kennedy, D. V. S., *Assoc. Vet., Insp. in charge.*

West Virginia—Wheeling:
A. N. Smith, P. D., V. M. D., *Asst. Vet., Insp. in charge.*

Wisconsin—Milwaukee:
A. E. Behnke, D. V. S., *Assoc. Vet., Insp. in charge.*

PATHOLOGICAL DIVISION

John S. Buckley, D. V. S., *Prin. Path., Chief.*
Henry J. Washburn, D. V. S., *Sr. Bact., Asst. Chief.*

General Pathology.

Robert J. Formad, V. M. D., M. D., *Assoc. Path.*
Gilbert T. Creech, D. V. S., *Assoc. Vet.*

BRANCH PATHOLOGICAL LABORATORIES.

Colorado—Denver:
George W. Stiles, M. D., Ph. D., *Assoc. Bact., in charge.*
Maude E. Starcher, *Lab. Aid in Bact.*

Illinois—Chicago:
L. Enos Day, V. S., *Assoc. Vet., in charge.*
John S. Bengston, D. V. M., *Asst. Vet.*

Maryland—Bethesda:
Hubert Bunyea, D. V. S., A. B., *Assoc. Vet.*
Walter J. Hall, V. M. D., *Jr. Vet.*
Willard G. Lockwood, D. V. M., *Jr. Vet.*
Clark W. Olson, B. V. Sc., *Jr. Vet.*
Chester N. Dale, D. V. M., *Jr. Vet.*

Nebraska—Omaha:
G. Byron Morse, M. D., Ph. D., V. S., *Assoc. Bact., in charge.*

Diseases of Animals.

Henry J. Washburn, D. V. S., *Sr. Bact. (tuberculosis inv.).*
Warren B. Shook, V. M. D., *Asst. Vet. (tuberculosis inv.).*

Diseases of Animals—Continued.
L. T. Giltner, V. M. D., M. S., *Assoc. Vet.* (*anaplasmosis and misc. diseases*).
William M. Mohler, D. V. M., *Asst. Vet.* (*misc. infectious diseases*).
Harry W. Schoening, V. M. D., *Sr. Vet.* (*rabies inv.; misc. inv.*).

Stock Poisoning by Plants.
C. Dwight Marsh, Ph. D., *Assoc. Physiol.*
Arthur B. Clawson, B. A., *Assoc. Physiol.*
Wm. E. Riter, B. S. A., *Jr. Physiol.*
Jas. F. Couch, A. M., *Assoc. Chem.*
Herbert Rogers, *Minor Sci. Helper.*

Serums, Viruses, Toxins.
Harry W. Schoening, V. M. D., *Sr. Vet.* (*serological inv.*).
William M. Mohler, D. V. M., *Asst. Vet.* (*serological inv.*).

TICK ERADICATION DIVISION

R. A. Ramsay, D. V. S., B. S. A., *Prin. Vet., Chief.*
W. M. MacKellar, V. S., *Sr. Vet., Asst. Chief.*

FIELD STATIONS (work conducted in coop. with States).
Alabama—Birmingham:
R. E. Jackson, V. S., *Assoc. Vet., Insp. in charge.*
Arkansas—Little Rock:
W. A. McDonald, D. V. M., *Assoc. Vet., Insp. in charge.*
Florida—Jacksonville:
T. W. Cole, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—Baton Rouge:
C. J. Becker, D. V. M., *Assoc. Vet., Insp. in charge.*
Mississippi—Jackson:
Hartwell Robbins, D. V. S., *Assoc. Vet., Insp. in charge.*
Oklahoma—Oklahoma City:
L. J. Allen, V. S., *Vet., Insp. in charge.*
South Carolina—Columbia:
W. K. Lewis, M. D. V., *Vet.* (*Coop.*), *in charge*
Texas—Fort Worth:
H. L. Darby, D. V. S., *Vet., Insp. in charge.*
Virginia—Suffolk:
Seaborn H. Still, D. V. S., *Asst. Vet., Acting Insp. in charge.*

TUBERCULOSIS ERADICATION DIVISION

A. E. Wight, M. D. V., *Prin. Vet., Chief.*
L. B. Ernest, D. V. M., *Sr. Vet.*
Elmer Lash, D. V. S., *Assoc. Vet.*

FIELD STATIONS (work conducted in coop. with States).
Alabama—Birmingham:
R. E. Jackson, D. V. M., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.
Arkansas—Little Rock:
H. L. Fry, D. V. M., *Asst. Vet., Insp. in charge.*
California—Sacramento:
Rudolph Snyder, M. D. C., *Assoc. Vet., Insp. in charge.*
Colorado—Denver:
W. E. Howe, D. V. S., *Assoc. Vet., Insp. in charge.*
Connecticut—Hartford:
R. L. Smith, D. V. S., *Assoc. Vet., Insp. in charge.*
Florida—Tallahassee:
J. G. Fish, D. V. S., *Asst. Vet., Insp. in charge.*
Georgia—Atlanta:
A. L. Hirleman, D. V. M., *Assoc. Vet., Insp. in charge.*
Idaho—Boise:
W. A. Sullivan, D. V. M., *Assoc. Vet., Insp. in charge.*
Illinois—Chicago:
J. J. Lintner, M. D. C., *Vet., Insp. in charge.*
Indiana—Indianapolis:
J. E. Gibson, V. S., *Vet., Insp. in charge.*
Iowa—Des Moines:
J. A. Barger, D. V. S., *Vet., Insp. in charge.*
Kansas—Topeka:
N. L. Townsend, V. M. D., *Assoc. Vet., Insp. in charge.*
Kentucky—Frankfort:
W. F. Biles, D. V. M., *Assoc. Vet., Insp. in charge.*
Louisiana—New Orleans:
G. T. Cole, V. M. D., *Assoc. Vet., Insp. in charge.*
Maine—Augusta:
G. R. Caldwell, V. S., *Assoc. Vet., Insp. in charge.*
Maryland—Baltimore:
E. B. Simonds, D. V. M., *Assoc. Vet., Insp. in charge.*
Massachusetts—Boston:
E. A. Crossman, D. V. M., *Vet.* (*Coop.*), *Insp. in charge.*
Michigan—Lansing:
T. S. Rich, D. V. M., *Vet. Insp. in charge.*
Minnesota—St. Paul:
W. J. Fretz, D. V. S., *Vet., Insp. in charge.*
Mississippi—Jackson:
Hartwell Robbins, D. V. S., *Assoc. Vet., Insp. in charge.*
Missouri—Jefferson City:
Ralph Graham, D. V. M., *Vet. Insp.* (*Coop.*), *Insp. in charge.*
Montana—Helena:
J. W. Murdoch, D. V. S., *Assoc. Vet., Insp. in charge.*

FIELD STATIONS—Continued.

Nebraska—Lincoln:
A. H. Francis, D. V. M., *Assoc. Vet., Insp. in charge.*

New Jersey—Trenton:
W G. Middleton, D. V. M., *Assoc. Vet., Insp. in charge.*

New Mexico—Albuquerque:
F. L. Schneider, B. S., D. V. S., *Vet., Insp. in charge.*

New York—Albany:
H. B. Leonard, D. V. M., *Vet. (Coop.), Insp. in charge.*

North Carolina—Raleigh:
W. C. Dendinger, D. V. M., *Assoc. Vet., Insp. in charge.*

North Dakota—Bismarck:
H. H. Cohenour, D. V. M., *Assoc. Vet., Insp. in charge.*

Ohio—Columbus:
A. J. DeFosset, D. V. M., *Insp. in charge.*

Oklahoma—Oklahoma City:
L. J. Allen, V. S., *Vet., Insp. in charge.*

Oregon—Portland:
S. B. Foster, D. V. S., *Assoc. Vet., Insp. in charge.*

Pennsylvania—Harrisburg:
J. B. Reidy, D. V. M., *Assoc. Vet., Insp. in charge.*

South Carolina—Columbia:
W. K. Lewis, *D. V. S., Vet. (Coop), Insp. in charge.*

South Dakota—Pierre:
J. O. Wilson, D. V. M., *Assoc. Vet., Insp. in charge.*

Tennessee—Nashville:
H. M. O'Rear, D. V. M., *Assoc. Vet., Insp. in charge.*

Texas—Fort Worth:
H. L. Darby, D. V. S., *Vet., Insp. in charge.*

Utah—Salt Lake City:
F. E. Murray, D. V. M., *Assoc. Vet., Insp. in charge.*

Vermont—Montpelier:
L. H. Adams, V. M. D., *Assoc. Vet., Insp. in charge.*

Virginia—Richmond:
R. E. Brookbank, D. V. S., *Assoc. Vet., Insp. in charge.*

Washington—Olympia:
J. C. Exline, D. V. M., *Assoc. Vet., Insp. in charge.*

West Virginia—Charleston:
H. M. Newton, D. V. M., *Assoc. Vet., (Coop.), Insp. in charge.*

Wisconsin—Madison:
James S. Healy, M. D. V., *Vet., Insp. in charge.*

Wyoming—Cheyenne:
J. T. Dallas, B. S. A., D. V. M., *Assoc. Vet., Insp. in charge.*

DIVISION OF VIRUS-SERUM CONTROL

D. I. Skidmore, V. S., *Prin. Vet., Chief.*
R. E. Holm, D. V. M., *Sr. Vet., Asst. Chief.*

FIELD STATIONS AND SUBSTATIONS.

California—Stockton:
W. J. Stewart, M. D., D. V. M., *Assoc. Vet., Insp. in charge.*

Colorado—Denver:
E. H. Carter, V. S., M. D. V., *Asst., Insp. in charge.*

Georgia—Albany:
C. A. Klein, D. V. M., *Asst. Vet., Insp. in charge.*

Illinois:
Aurora (substa. of East St. Louis)—
W. D. Livermore, D. V. M., *Asst. Vet.*
East St. Louis—
J. W. Joss, D. V. M., *Assoc. Vet., Insp. in charge.*
Whitehall (substa. of East St. Louis)—
Paul A. Nulk, D. V. M., *Asst. Vet.*

Indiana:
Indianapolis—
J. D. Stillwell, D. V. M., *Assoc. Vet., Insp. in charge.*
Noblesville (substa. of Indianapolis)—
O. C. Mayer, M. D. V., *Asst. Vet.*
Thorntown (substa. of Indianapolis)—
G. D. Ashley, D. V. M., *Asst. Vet.*
Zionsville (substa. of Indianapolis)—
Robert Thumann, D V. M., *Asst. Vet.*

Iowa:
Des Moines (substa. of Fort Dodge)—
Fred H. Schaeffer, D. V. M., *Asst. Vet.*
Fort Dodge—
D. G. Tepfer, D. V. M., *Asst. Vet., Insp. in charge.*
Muscatine (substa. of Ottumwa)—
C. P. Lunneen, D. V. M., *Asst. Vet.*
Ottumwa—
E. E. Lollar, D. V. M., *Asst. Vet., Insp. in charge.*
Sioux City—
L. B. Vermillion, D. V. M., *Assoc. Vet., Insp. in charge.*

Kansas:
Hutchinson (substa. of Wichita)—
G. C. Gulick, D. V. M., *Asst. Vet.*
Kansas City—
F. A. Imler, D. V. M., *Vet., Insp. in charge.*
Lathrop (substa. of Kansas City, Kans.)—
J. C. Bolton, D. V. M., *Asst. Vet.*
Manhattan (substa. of Topeka, Kans.)—
F. S. Ratts, D. V. M.. *Asst. Vet.*
Topeka—
C. B. Clement, D. V. S., *Asst. Vet., Insp. in charge.*
Wichita—
F. N. Elwell, D. V. M., *Assoc. Vet., Insp. in charge.*

Minnesota—St. Paul:
C. V. Metcalf, D. V. M., *Asst. Vet., Insp. in charge.*

FIELD STATIONS AND SUBSTATIONS—Contd.

Missouri:
St. Joseph—
J. S. Clark, D. V. M., *Asst. Vet., Insp. in charge.*
South St. Joseph (substa. of St. Joseph)—
L. S. Rohrer, D. V. S., *Asst. Vet.*
West Plains—
J. F. Park, D. V. M., *Asst. Vet., Insp. in charge.*

Nebraska:
Franklin (substa. of Kansas City, Kans.)—
A. L. Faunce, M. D. C., *Asst. Vet.*
Grand Island (substa. of Omaha)—
G. P. Rebold, D. V. M., *Asst. Vet.*
Hooper (substa. of Omaha)—
J. H. Cock, D. V. S., *Asst. Vet.*
Omaha—
H. H. Day, D. V. M., *Assoc. Vet., Insp. in charge.*
Ralston (substa. of Omaha)—
W. C. Hamilton, jr., D. V. M., *Asst. Vet.*
Superior (substa. of Kansas City, Kans.)—
Walter Boyce, D. V. M., *Asst. Vet.*

New York—Pearl River:
F. A. Grenfell, D. V. M., *Assoc. Vet., Insp. in charge.*

Ohio:
Columbus (substa. of Indianapolis, Ind.)—
R. N. Birdwhistell, D. V. M., *Asst. Vet.*
Fostoria (substa. of Indiapolis, Ind.)—
E. Lapple, D. V. M., *Asst. Vet.*

Oklahoma—Oklahoma City (substa. of Wichita, Kans.):
C. L. Lash, D. V. S., *Asst. Vet.*

South Dakota—Sioux Falls (substa. of Sioux City, Iowa):
W. C. Mitchell, D. V. M., *Asst. Vet.*

Texas—Fort Worth:
E. T. Marsh, D. V. M., *Asst. Vet., Insp. in charge.*

ZOOLOGICAL DIVISION

Maurice C. Hall, B. S., M. A., Ph. D., D. Sc., D. V. M., *Prin. Zool., Chief.*

Systematic Parasitology.
Albert Hassall, M. R. C. V. S., *Sr. Zool., in charge.*
Margie Potter, A. B., *Libr. Asst.*

Parasites of Poultry.
Eloise B. Cram, A. B., M. S., Ph. D., *Assoc. Zool., in charge.*
Myrna Jones, A. B., M. A., *Jr. Zool.*

Parasites of Swine and Horses.
Benjamin Schwartz, A. B., M. A., Ph. D., *Sr. Zool., in charge.*

Parasites of Ruminants.
Chief of Div. in charge.

Miscellaneous Parasites.
Emmett W. Price, D. V. M., *Assoc. Zool., in charge.*
Glenwood C. Roe, A. B., M. S., *Jr. Physiol.*

Treatment for Internal and External Parasitisms.
Chief of Div. in charge.
W. H. Wright, D. V. M., *Asst. Vet.*

Field Stations.
Georgia—Moultrie:
E. M. Nighbert, D. V. S., *Assoc. Vet., in charge.*
J. W. Connelly, *Sr. Lay Insp. (internal parasites of swine).*
Kansas—Kansas City:
Marion Imes, M. S., D. V. M., *Sr. Vet., in charge.*
L. G. Brenner, *Sr. Lay Insp. (external parasites).*
Louisiana—Jeanerette:
Gerald Dikmans, A. B., B. S. A., M. S., D. V. M., *Assoc. Parasit., in charge (internal parasites of cattle).*
Mississippi—McNeill:
Cooper Curtice, D. V. M., M. D., *Assoc. Vet., in charge (internal parasites of sheep).*
Montana—Miles City:
H. B. Raffensperger, M. D. C., *Asst. Vet., in charge (internal parasites of horses).*

BUREAU OF DAIRY INDUSTRY

O. E. Reed, B. S., M. S., *Chief.*
J. M. Kemper, *Admin. Asst.*
Karl E. Parks, *Assoc. Dairy Engr.*
A. B. Nystrom, M. S., *Asst. to Chief, in charge of Publications and Exhibits.*
Carrie B. Sherfy, *Jr. Libr., in charge of Libr.*

DAIRY RESEARCH LABORATORIES

L. A. Rogers, B. S., D. Sc., *Prin. Bact., in charge.*

Bacteriology and Chemistry of Milk.
E. O. Whittier, M. S., Ch. E., *Sr. Chem.*
W. C. Frazier, B. S., Ph. D., *Assoc. Bact.*
Philip Rupp, Ph. D., M. D., *Assoc. Chem.*

Condensed Milk and Milk Powder.
G. E. Holm, M. S., Ph. D., *Sr. Chem.*
E. F. Deysher, B. S., *Asst. Chem.*
G. R. Greenbank, B. A., *Assoc. Chem.*
Emily Grewe, B. Ed., M. A., Ph. D., *Asst. Home Econ. Spec.*
P. A. Wright, M. A., *Asst. Chem.*
B. W. Webb, M. S., *Jr. Dairy Mfg. Spec.*

Cheese Manufacturing Investigations.
K. J. Matheson, B. S., *Sr. Dairy Mfg. Spec.*
S. A. Hall, B. S., *Asst. Dairy Mfg. Spec.*
G. P. Sanders, M. S., *Jr. Dairy Mfg. Spec.*
P. D. Watson, B. S., *Asst. Chem.*

Butter and By-Products.
R. W. Bell, M. S. A., Ph. D., *Assoc. Dairy Mfg. Spec.*
FIELD HEADQUARTERS.
Pennsylvania—Grove City:
W. T. Johnson, S. B., *Assoc. Bact.*
F. R. Evans, B. S., *Jr. Bact.*
G. A. Ramsdell, M. S., *Asst. Chem.*

Ice Cream Investigations.
Alan Leighton, B. S., *Sr. Chem.*
P. N. Peter, B. S., *Asst. Chem.*
O. E. Williams, B. S., *Asst. Dairy Mfg. Spec.*

Nutrition of Dairy Cows.
E. B. Meigs, A. B., M. D., *Sr. Physiol.*
Ben H Nicolet, A. B., Ph. D., *Chem.*
C. A. Cary, S. B., *Assoc. Chem.*
W. A. Turner, M. A., Ph. D., *Assoc. Chem.*
H. T. Converse, B. S., M. A., *Asst. Dairy Husb.*
A. M. Hartman, B. S., *Jr. Chem.*

DAIRY CATTLE BREEDING INVESTIGATIONS

R. R. Graves, M. S., *Sr. Spec. in Dairy Cattle Breeding, in charge.*
J. R. Dawson, B. S. A., A. M., *Sr. Dairy Husb.*
M. H. Fohrman, B. S., A. M., *Sr. Dairy Husb.*
G. W. Hervey, B. S., A. M., Sc. D., *Sr. Biometrician.*
F. W. Miller, D. V. M., M. S. A., *Sr. Vet. and Physiol.*
W. W. Swett, B. S., A. M., *Sr. Dairy Husb.*
Duncan Stuart, M. S., *Assoc. Dairy Husb.*
C. J. Stauber, *Asst. Dairy Husb.*

MARKET MILK INVESTIGATIONS

Ernest Kelly, *Sr. Mkt. Milk Spec., in charge.*

Milk-Plant Management.
C. E. Clement, B. S., M. A., *Assoc. Mkt. Milk Spec.*
J. B. Bain, A. B., *Assoc. Mkt. Milk Spec.*
F. M. Grant, B. S., *Asst. Mkt. Milk Spec.*

Dairy Sanitation.
C. S. Leete, B. S., *Assoc. Mkt. Milk Spec.*
L. H. Burgwald, B. S. A., *Assoc. Mkt. Milk Spec.*
R. P. Hotis, B. S. A., *Asst. Mkt. Milk Spec.*

Market Milk and Cream.
C. J. Babcock, B. S. A., *Assoc. Mkt. Milk Spec.*
C. S. Leete, B. S., *Assoc. Mkt. Milk Spec.*
R. P. Hotis, B. S. A., *Asst. Mkt. Milk Spec.*

DAIRY INTRODUCTION

J. H. McClain, B. S., *Sr. Dairy Husb., in charge.*

Dairy Manufacturing Investigations.
Wm. White, B. S. A., *Sr. Dairy Mfg. Spec.*
C. S. Trimble, B. S. A., *Assoc. Dairy Mfg. Spec.*
J. G. Winkjer, *Assoc. Dairy Husb.*
H. L. Wilson, *Assoc. Dairy Mfg. Spec.*
FIELD HEADQUARTERS.
Mississippi—A. & M. College:
Albert Fenger, *Agt. in Dairying (Coop.).*
New York—East Aurora:
A. J. Boyer, B. S., *Asst. Dairy Mfg. Spec. (Coop.).*
Ohio—Sugar Creek:
R. E. Hardell, B. S. A., *Asst. Dairy Mfg. Spec. (Coop.).*
Oregon—Corvallis:
E. S. Larrabee, B. S., *Agt. in Dairying (Coop.).*
Pennsylvania—Grove City:
R. F. Flint, *Agt. in Dairying (Coop.).*
C. A. Buck, B. S., *Agt. in Dairying (Coop.).*
Tennessee—Nashville:
L. S. Edwards, *Dairy Mfg. Spec. (Coop.).*

Dairy Herd Improvement.
J. C. McDowell, M. A., Ph. D., *Sr. Dairy Husb.*
J. B. Parker, B. S. A., *Assoc. Dairy Husb.*
W. E. Wintermeyer, B. S. A., *Assoc. Dairy Husb.*
J. B. Shepherd, B. S. A., *Assoc. Dairy Husb.*
FIELD HEADQUARTERS.
Alabama—Auburn:
L. H. Stinnett, B. S., *Agt. in Dairying (Coop.).*

Navy Butter Supervision.
C. S. Trimble, B. S. A., *Assoc. Dairy Mfg. Spec.*

Western Office, Salt Lake City, Utah.
J. E. Dorman, *Sr. Dairy Husb., in charge.*
S. J. Pearce, M. S., *Asst. Mkt. Milk Spec.*
H. A. Mathieson, B. S. A., Boise, Idaho, *Agt. in Dairying (Coop.).*

DAIRY EXPERIMENT STATIONS

Louisiana—Jeanerette:
S. L. Cathcart, B. S., *Agt. in Dairying (Coop.).*

Maryland—Beltsville:
T. E. Woodward, M. S., *Sr. Dairy Husb., Supt.*

Montana—Muntley:
T. W. Moseley, M. S., *Assoc. Dairy Husb.*

North Dakota—Mandan:
A. L. Watt, M. S., *Agt. in Dairying (Coop.), Supt.*

Oklahoma—Woodward:
A. G. Van Horn, B. S. A., *Agt. in Dairying (Coop.), Supt.*
South Carolina—Columbia:
J. A. Riley, M. S., *Agt. in Dairying (Coop.), Supt.*

South Carolina—Columbia—Continued.
James E. Adams, M. S., *Assoc. Soil Technol.*
A. S. Laird, B. S., *Agt. (Coop.).*
South Dakota—Ardmore:
D. V. Kopland, *Agt. in Dairying (Coop.).*

BUREAU OF PLANT INDUSTRY

William A. Taylor, B. S., D. Sc., *Chief.*
Karl F. Kellerman, B. S., D. Sc., *Assoc. Chief.*
H. E. Allanson, B. S., *Asst. Chief.*
Wm. E. Taylor, *Chief Clerk.*
James M. Pickens, *Asst., in charge of Pubs.*
W. P. Cox, *Asst., in charge of Accts.*
F. E. Meloy, *Asst., in charge of Property.*

ALKALI AND DROUGHT RESISTANT CROPS

T. H. Kearney, LL. D., *Prin. Physiol., in charge.*

Egyptian Cotton Breeding Investigations.
FIELD STATION.
Arizona—Sacaton:
George J. Harrison, *Chief Sci. Aid.*
Robert H. Peebles, *Sr. Sci. Aid.*

Breeding and Physiology of Alkali and Drought Resistant Plants.
FIELD STATION.
Arizona—Sacaton:
George J. Harrison, *Chief Sci. Aid.*

ARLINGTON EXPERIMENT FARM, ROSSLYN, VA.

E. C. Butterfield, B. S., *Sr. Hort. and Supt., in charge.*
J. H. Criswell, B. S., *Assoc. Hort., Asst. Supt.*

BIOPHYSICAL LABORATORY

G. N. Collins, *Prin. Bot., in charge.*
J. O. Belz, Ph. B., M. Di., *Assoc. Biophys.*
L. H. Flint, B. S., M. S., Ph. D., *Assoc. Physiol.*
J. H. Kempton, *Assoc. Bot.*
A. E. Longley, B. S., A. M., Ph. D., *Assoc. Bot.*
John W. McLane, B. S., *Asst. Biophys.*
William D. Donahoo, *Sr. Lab. Mech.*

BLISTER RUST CONTROL

Samuel B. Detwiler, B. S. F., *Prin. Path., in charge.*

Eastern Control Program.
James F. Martin, B. S., M. S., Ph. D., *Sr. Path., in charge.*
Roy G. Pierce, A. B., B. S. F., M. S. F., *Assoc. Path.*

Eastern Control Program—Continued.
FIELD HEADQUARTERS.
Connecticut:
East Cornwall—
Ernest D. Clark, Ph. B., M. F., *Agt., Co. Leader.*
New Haven—
James E. Riley, jr., B. S., M. F., *Asst. Path., State Leader.*
Walter O. Filley, *Collab.*
Amihud Grasovsky, B. S., M. S., Ph. D., *Collab.*
Maine:
Auburn—
Guy H. Kimball, *Agt., Co. Leader.*
Augusta—
Walter O. Frost, B. S. F., *Assoc. Path., State Leader.*
Arthur J. Lambert, *Agt.*
Neil L. Violette, A. B., LL. B., *Collab.*
North Bridgton—
Daniel S. Curtis, *Agt., Co. Leader.*
Portland—
Solon D. Conner, B. S. F., *Agt., Co. Leader.*
Waterville—
John MacG. White, *Agt., Co. Leader.*
Massachusetts:
Arlington Heights—
William T. Roop, *Agt., Co. Leader.*
Boston—
Carl C. Perry, B. S., M. F., *Agt., State Leader.*
Edmund C. Filler, B. S. F., *Sr. Path.*
Kirk K. Stimson, *Agt.*
North Abington—
Earle M. Brockway, B. S., *Agt., Co. Leader.*
Gardner—
William Clave, *Agt., Co. Leader.*
Great Barrington—
William J. Endersbee, A. B., B. S. F., *Asst. Path., Co. Leader.*

Eastern Control Program—Continued.
FIELD HEADQUARTERS—Continued.
Massachusetts—Continued.
Greenfield—
George S. Doore, *Agt., Co. Leader.*
Springfield—
Ralph E. Wheeler, *Agt., Co. Leader.*
Taunton—
Lewis W. Hodgkins, *Agt.*
Worcester—
Edward J. McNerney, *Agt., Co. Leader.*
Michigan—Lansing:
David J. Stouffer, B. S., *Agt., State Leader.*
New Hampshire:
Concord—
Leonard E. Newman, *Agt., State Leader.*
Thomas J. King, *Agt., Co. Leader.*
John H. Foster, M. S., M. F., *Collab.*
Conway—
Stephen H. Boomer, B. S. F., *Agt., Co. Leader.*
Exeter—
Lewis C. Swain, B. S. F., *Agt., Co. Leader.*
Keene—
Frederick J. Baker, *Agt., Co. Leader.*
Lebanon—
George F. Richardson, jr., *Agt., Co. Leader.*
Milford—
Clarence S. Herr, B. S. F., *Agt., Co. Leader.*
Rochester—
William J. Cullen, *Agt., Co. Leader.*
Woodsville—
Thomas L. Kane, *Agt., Co. Leader.*
New York:
Albany—
H. L. McIntyre, *Collab., State Leader.*
James D. Kennedy, B. S., *Agt., Asst. State Leader.*
Charles E. Baker, B. S., *Agt., Co. Leader.*
George E. Stevens, *Collab., Co. Leader.*
Gloversville—
John W. Charlton, B. S., *Agt., Co. Leader.*
Hyde Park—
Harrison G. Strait, *Agt., Co. Leader.*
Lewis—
Benjamin H. Nichols, *Agt., Co. Leader.*
Lowville—
Irving S. Bowlby, B. S. F., M. F., *Agt., Co. Leader.*

Eastern Control Program—Continued.
FIELD HEADQUARTERS—Continued.
New York—Continued.
Saranac Lake—
Walter F. Pratt, B. S., *Agt., Co. Leader.*
Warrensburg—
Alfred E. Fivaz, B. S. F., *Agt.*
Noble H. Harpp, *Agt., Co. Leader.*
Ernest G. Woodward, *Agt., Co. Leader.*
Rhode Island—Providence:
Archie W. Hurford, B. S., *Agt., State Leader.*
Vermont:
Brattleboro—
Sharon V. Holden, *Agt., State Leader.*
Montpelier—
Robert M. Ross, B. S. F., *Collab.*
Rutland—
Wilbur E. Bradder, *Agt., Co. Leader.*
White River Junction—
Frank H. Rose, *Agt., Co. Leader.*
Wisconsin—Madison:
Herman J. Ninman, B. S., M. S., *Agt., State Leader.*

Western Control Program.
Gilbert B. Posey, B. S., M. S., *Sr. Path., in charge.*
FIELD HEADQUARTERS.
California:
Berkeley—
Harold R. Offord, B. A., M. A., *Agt.*
Rene P. d'Urbal, A. B., *Agt.*
Douglas R. Miller, *Jr. For.*
Sacramento—
George A. Root, B. S., M. S., *Asst. Path., State Leader.*
Colorado—Ft. Collins:
Burton O. Longyear, B. S., *Collab.*
Idaho—Moscow:
Ernest E. Hubert, B. S., M. S., Ph. D., *Collab., State Leader.*
Montana—Missoula:
Charles H. Johnson, B. S. F., *Asst. Path., State Leader.*
Edward Dickey, *Agt.*
Door Skeels, B. S., *Collab.*
Oregon—Corvallis:
Leslie N. Goodding, B. A., B. S. F., B. Ped., *Assoc. Path., State Leader.*
Frank P. Sipe, B. S., M. S., *Agt.*
Utah—Salt Lake City:
Albert O. Garrett, A. B., *Collab.*
Washington:
Olympia—
Elton F. Ross, *Collab.*
Spokane—
Stephen N. Wyckoff, B. S., *Sr. Path.*

Western Control Program—Continued.
FIELD HEADQUARTERS—Continued.
Washington—Continued.
Spokane—Continued.
Henry N. Putnam, B. S., *Assoc. Path.*
Jesse L. Bedwell, B. S., M. S., *Asst. Path.*
William A. Rockie, B. S. A., *Asst. Path.*
Clarence C. Strong, B. S., *Asst. For.*
Bernard A. Anderson, B. S. F., *Jr. For.*
Warren V. Benedict, B. S. F., *Jr. For.*
Frank A. Patty, B. S., *Jr. Path.*
Marvin C. Riley, B. S. F., *Jr., For.*
Philip S. Simcoe, B. S. F., *Jr. For.*
Percy B. Bell, B. S., *Jr. Chem.*
Edward L. Joy, B. S., *Jr. For.*
William G. Guernsey, *Jr. For.*
Percy B. Rowe, *Jr. For.*
Harry F. Geil, *Agt.*
Robert L. MacLeod, A. B., *Agt.*
Remley E. Myers, *Agt.*
Wayne F. Painter, B. S. F., *Agt.*
Dellmont R. Payne, *Agt.*
Carl O. Peterson, *Agt.*
Herman E. Swanson, A. B., *Agt.*
Bernard A. Ganoung, *Agt.*
Aaron H. Glasgow, *Agt.*
Carl C. Epling, A. B., M. S., Ph. D., *Collab.*
George M. Whiting, *Collab.*

BOTANY

Frederick V. Coville, A. B., D. Sc., *Prin. Bot., in charge.*

Economic and Systematic Botany.
A. S. Hitchcock, B. S. A., M. S., D. Sc., *Prin. Bot.*
S. F. Blake, A. M., Ph. D., *Sr. Bot.*
Agnes Chase*, *Assoc. Bot.*
Ivar Tidestrom, Ph. B., *Asst. Bot.*
Alice C. Atwood, Ph. B., *Asst. Libr.*
Oliver M. Freeman, A. B., *Asst. Bot.*
Jason R. Swallen, B. A., M. S., *Jr. Bot.*

Weed Investigations.
M. W. Talbot, B. S., *Sr. Bot.*

CEREAL CROPS AND DISEASES

Carleton R. Ball, M. S., D. Sc., *Prin. Agron., in charge.*

Cereal Agronomy Investigations.
Max A. McCall, M. S., *Prin. Agron.*
(1) Eastern Wheat Investigations.
Clyde E. Leighty, B. A., Ph. D., *Prin. Agron.*
William J. Sando, M. S., *Assoc. Agron.*

Cereal Agronomy Investigations—Continued.
(2) Western Wheat Investigations.
J. Allen Clark, M. S., *Sr. Agron.*
Karl S. Quisenberry, M. S., *Assoc. Agron.*
————, *Jr. Chem.*
————, *Sci. Aid.*
(3) Oat Investigations.
T. Ray Stanton, M. S., *Sr. Agron.*
Franklin A. Coffman, M. S., *Assoc. Agron.*
(4) Barley Investigations.
Harry V. Harlan, M. S., D. Sc., *Prin. Agron.*
Merritt N. Pope, B. S., A. M., *Assoc. Agron.*
Mary L. Martini, B. S., *Asst. Bot.*
Lucille Reinbach, B. A., *Jr. Agr. Stat.*
(5) Rice investigations.
Charles E. Chambliss, M. S., *Assoc. Agron.*
(6) Corn Investigations.
Frederick D. Richey, B. S., *Sr. Agron.*
Curtis H. Kyle, B. S., *Sr. Agron.*
Harry S. Garrison, B. S., *Asst. Agron.*
Joseph M. Hammerly, *Sr. Sci. Aid.*
(7) Grain Sorghum and Broomcorn Investigations.
John H. Martin, M. S., Ph. D., *Assoc. Agron.*
(8) Seed Flax Investigations.
Arthur C. Dillman, M. S., *Assoc. Agron.*

Cereal Pathology Investigations.
Aaron G. Johnson, M. S., Ph. D., *Prin. Path.*
(1) Sac and Imperfect Fungi Investigations.
Aaron G. Johnson, M. S., Ph. D., *Prin. Path.*
(2) Cereal Rust Investigations.
Harry B. Humphrey, B. S., Ph. D., *Prin. Path.*
(3) Cereal Smut Investigations.
————, *Path.*
Marion A. Griffiths, M. S., *Asst. Path.*
(4) Cereal Bacteria Investigations.
————, *Assoc. Path.*

Barberry Eradication.
Lynn D. Hutton, M. S., *Assoc. Path.*
Gordon C. Curran, B. S., *Assoc. Path.*

Cereal Physiology Investigations.
Annie M. Hurd-Karrer,* M. S., Ph. D., *Assoc. Physiol.*

Field Stations (Coop.).
California:
Berkeley—
Ruth F. Allen, M. A., Ph. D., *Assoc. Path. (cereal rust inv.).*

Field Stations—Continued.
California—Continued.
Berkeley—Continued.
Fred N. Briggs, M. S., Ph. D., *Asst. Path.* (*cereal smut inv.*).
Biggs—
Jenkin W. Jones, M. S., *Sr. Agron. and Supt.* (*rice inv.*).
Davis—
Victor H. Florell, M. S., *Assoc. Agron.* (*cereal prod. and improvement*).
Colorado—Fort Collins:
Ernest A. Lungren, M. S., *Asst. Path.* (*barberry erad.*).
Georgia—Athens:
Ross R. Childs, M. S., *Agt.* (*cereal prod. and improvement*).
Idaho:
Aberdeen—
Gustav A. Wiebe, M. S., *Asst. Agron.* (*cereal prod. and improvement*).
Moscow—
J. Milford Raeder, M. S., *Agt.* (*stripe rust inv.*).
Illinois:
Bloomington—
James R. Holbert, M. S., Ph. D., *Sr. Agron.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Urbana—
Robert W. Bills, B. S., *Agt.* (*barberry erad.*)
Indiana—La Fayette:
George N. Hoffer, A. B., M. S., D. Sc., *Agt.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
John F. Trost, M. S., *Assoc. Path.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Ralph P. St. John, M. S., *Assoc. Agron.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Glenn M. Smith, M. S., *Asst. Path.* (*corn root-rot, stalk-rot, and ear-rot inv.*).
Edwin B. Mains, A. B., Ph. D., *Agt.* (*leaf rust inv.*).
Leroy E. Compton, M. S., *Asst. Path.* (*leaf rust inv.*).
Herbert S. Jackson, A. B., *Agt.* (*rust and smut mycology.*).
Wayne E. Leer, M. S., *Agt.* (*barberry erad.*).
Iowa—Ames:
Merle T. Jenkins, M. S., *Assoc. Agron.* (*corn inv.*).
Arthur A. Bryan, M. S., *Asst. Agron.* (*corn inv.*).
Sherlock M. Dietz, M. S., Ph. D., *Agt.* (*oat crown-rust inv.*).
Hickman C. Murphy, M. S., *Agt.* (*oat crown-rust inv.*).

Field Stations—Continued.
Iowa—Ames—Continued.
Lyman C. Burnett, M. S., *Agt.* (*oat breeding inv.*).
Percy W. Rohrbaugh, B. A., *Agt.* (*barberry erad.*).
Kansas:
Hays—
Arthur F. Swanson, M. S., *Asst. Agron.* (*cereal prod. and improvement.*).
Manhattan—
Arthur M. Brunson, M. S., Ph. D., *Agron.* (*corn inv.*).
Carl W. Bower, B. S., *Agt.* (*corn inv.*).
John H. Parker, M. S., *Agt.* (*cereal breeding and improvement*).
Hurley Fellows, M. S., Ph. D., *Assoc. Path.* (*wheat foot-rot inv.*).
Charles O. Johnston, M. S., *Asst. Path* (*leaf rust inv.*).
Louisiana:
Baton Rouge—
Hugo F. Stoneberg, M. S., *Asst. Agron.* (*corn inv.*).
Crowley—
J. Mitchell Jenkins, B. S., *Assoc. Agron. and Supt.* (*rice inv.*).
Michigan—East Lansing:
Walter F. Reddy, LL. B., *Assoc. Path.* (*barberry erad.*).
Minnesota:
Minneapolis—
Emil H. Ostrom, B. S., *Agt.* (*barberry erad.*).
St. Paul—
Elvin C. Stakman, M. A., Ph. D., *Agt.* (*stem rust inv.*).
Moses N. Levine, M. S., Ph. D., *Assoc. Path.* (*stem rust inv.*).
Jonas J. Christensen, M. S., Ph. D., *Agt.* (*stem rust inv.*).
Ralph U. Cotter, M. S., *Asst. Path.* (*stem rust inv.*).
Edward M. Freeman, M. S., Ph. D., *Collab.* (*stem rust inv.*).
Helen Hart, M. A., *Agt.* (*stem rust inv.*).
Halbert H. Thornberry, M. S., *Agt.* (*stem rust inv.*).
James M. Wallace, B. S., *Agt.* (*stem rust inv.*).
Leonard W. Melander, M. S., *Assoc. Path.* (*barberry erad.*).
Gilbert D. George, *Agt.* (*barberry erad.*).
————, *Assoc. Path.* (*cereal breeding inv.*).
Herbert K. Hayes, M. S., Sc. D., *Collab.* (*cereal breeding inv.*).
Herman A. Rodenhiser, M. S., *Agt.* (*flax diseases*).
Missouri—Columbia:
Lewis J. Stadler, B. S., A. M., Ph. D., *Agt.* (*cereal prod. and improvement*).

Field Stations—Continued.
Montana:
Bozeman—
William L. Popham, B. S., *Agt.* (*barberry erad.*).
Moccasin—
Burton B. Bayles, M. S., *Asst. Agron.* (*cereal prod. and improvement*).
Nebraska:
Lincoln—
Albert F. Thiel, M. A., *Assoc. Path.* (*barberry erad.*).
North Platte—
George F. Sprague, M. S., *Asst. Agron* (*cereal prod. and improvement*).
New York—Ithaca:
Lowell F. Randolph, Ph. D., *Assoc. Cytol.* (*cytology, histology, and morphology of corn*).
William T. Craig, *Agt.* (*cereal prod. and improvement*).
Ernest Dorsey, B. S., Ph. D., *Agt.* (*cytology of cereals*).
North Dakota:
Dickinson—
Ralph W. Smith, M. S., *Assoc. Agron.* (*cereal prod. and improvement*).
Fargo—
George C. Mayoue, M. S., *Assoc. Path.* (*barberry erad.*).
Lytton W. Boyle, M. S., *Asst. Path.* (*flax diseases*).
Mandan—
John C. Brinsmade, jr., A. B., *Asst. Agron.* (*flax inv.*).
Elmer R. Ausemus, M. S., *Jr. Agron.* (*cereal prod. and improvement*).
Ohio—Columbus:
John W. Baringer, A. B., M. S., *Assoc. Path.* (*barberry erad.*).
Oklahoma—Woodward:
John B. Sieglinger, M. S., *Assoc. Agron.* (*grain sorghum and broomcorn inv.*).
Oregon—Moro:
David E. Stephens, B. S., *Sr. Agron. and Supt.* (*cereal prod. and improvement*).
James F. Martin, B. S., *Jr. Agron.* (*cereal prod. and improvement*).
South Dakota—Brookings:
Raymond O. Bulger, B. S., *Agt.* (*barberry erad.*).
Tennessee—Knoxville:
Ludwig S. Mayer, M. S., *Asst. Agron.* (*corn inv.*).
Virginia—Rosslyn (Arlington Exp. Farm):
Harold H. McKinney, M. S., *Sr. Path.* (*virus diseases*).
Robert W. Leukel, M. S., *Assoc. Path.* (*cereal disease inv.*).

Field Stations—Continued.
Virginia—Rosslyn (Arlington Exp. Farm)—Continued.
Emery R. Ranker, B. S., M. A., Ph. D., *Assoc. Physiol.* (*cereal smut inv.*).
Victor F. Tapke, B. S., Ph. D., *Assoc. Path.* (*cereal smut inv.*).
John W. Taylor, M. S., *Assoc. Agron.* (*cereal production and improvement*).
Washington—Pullman:
Edward F. Gaines, M. S., Sc. D., *Agt.* (*cereal smut inv.*).
Wisconsin—Madison:
James G. Dickson, M. S., Ph. D., *Agt.* (*cereal disease inv.*).
Karl P. Link, B. S., Ph. D., *Agt.* (*cereal disease inv.*).
Helen Johann, A. M., *Asst. Path.* (*wheat scab inv.*).
Paul E. Hoppe, B. S., *Agt.* (*wheat scab inv.*).
Chester Barlow, Asst. Sci. Aid (*wheat scab inv.*).
Ralph M. Caldwell, M. S., *Agt.* (*barberry erad.*).

CITRUS CANKER ERADICATION

Directed by Assoc. Chief of Bureau.
FIELD HEADQUARTERS.
Alabama—Mobile:
John W. Pace, M. S., *Agt.* (delegated by Comr. of Agr. of Alabama to direct all local work pertaining to erad. of citrus canker).
Florida—Gainesville:
Wilmon Newell, M. S., D. Sc., *State Pl. Comr.* (*Collab.*).
Louisiana—Baton Rouge:
W. E. Anderson, B. S., *State Ent.* (*Collab.*)
Mississippi—A. & M. College:
R. W. Harned, B. S., *State Ent.* (*Collab.*).
Texas—Austin:
J. M. Del Curto, B. S., *State Path.* (*Collab.*).

COTTON, RUBBER, AND OTHER TROPICAL PLANTS

O. F. Cook, Ph. B., Prin. Bot., in charge.

Crop Acclimatization, Cotton Breeding, and Rubber Production Investigations.

C. B. Doyle, *Sr. Agron.*
L. G. Polhamus, *Chief Sci. Aid.*
R. L. Taylor, *Chief Sci. Aid.*
A. D. Harvey, *Asst. Sci. Aid.*
FIELD STATIONS.
Arizona—Sacaton (U. S. Field Station):
C. J. King, B. S., *Agron. and Supt.*
J. S. Townsend, *Assoc. Technol.*

Crop Acclimatization, Cotton Breeding, and Rubber Production Investigations—Con.

FIELD STATIONS—Continued.

Arizona—Sacaton (U. S. Field Station)—Continued.

F. M. Eaton, M. S., Ph. D., *Asst. Physiol.*

H. F. Loomis, *Asst. Agron.*

California:

Bard (U. S. Acclimatization Garden)—

R. E. Beckett, *Prin. Sci. Aid.*

J. W. Hubbard, *Asst. Sci. Aid.*

R. S. Stitt, *Asst. Sci. Aid.*

Berkeley—

H. M. Hall, *Collab.*

Indio—

H. G. McKeever, *Asst. Agron.*

San Bernardino—

J. B. Griffing, *Collab.*

Shafter (U. S. Cotton Field Station)—

W. B. Camp, B. S., *Asso. Agron.*

W. E. Clark, *Jr. Agron.*

F. W. Herbert, *Sr. Sci. Aid.*

J. F. Schuh, *Asst. Sci. Aid.*

Torrey Pines (U. S. San Diego Acclimatization Garden)—

C. G. Marshall, *Asst. Agron. and Supt.*

Florida—Coconut Grove (Chapman Field Garden):

Alfred Keys, *Assoc. Hort.*

Haiti:

Bayeux—

Laurence Bolte, *Agt.*

Thor—

F. C. Baker, B. S., *Sr. Technol. and Supt.*

W. H. Jenkins, B. S., *Asst. Agron.*

W. B. Gernert, B. S., M. S., Ph. D., *Agt.*

J. L. Jenkins, *Agt.*

New Mexico—State College (U. S. Acclimatization Field Station):

A. R. Leding, *Chief Sci. Aid.*

L. R. Lytton, *Asst. Sci. Aid.*

South Carolina—James Island, near Charleston (U. S. Acclimatization Field Station):

D. M. Simpson, B. S., *Assoc. Agron.*

W. W. Ballard, *Prin. Sci. Aid.*

Texas:

Austwell—

J. H. Kinsler, *Collab.*

Greenville (U. S. Cotton Breeding Field Station)—

H. C. McNamara, B. S., *Assoc. Agron. and Supt.*

D. R. Hooton, B. S., *Asst. Pomol.*

W. P. Snyder, M. S., *Sr. Sci. Aid.*

D. D. Porter, *Asst. Sci. Aid.*

CROP PHYSIOLOGY AND BREEDING

Walter T. Swingle, B. S., M. A., D. Sc., *Prin. Physiol., in charge.*

Citrus Breeding and Life History Studies.

T. Ralph Robinson, B. S., A. M., *Sr. Physiol.*

Eugene May, jr., *Prin. Sci. Aid.*

Allan F. Dameron, *Asst. Photographer.*

FIELD HEADQUARTERS.

California—Berkeley (Univ. of Calif.):

M. J. Hagerty, *Translator of Chinese.*

Florida—Eustis:

E. M. Savage, *Asst. Pl. Breeder.*

Maryland—Bethesda:

Robert J. Bullen, *Sr. Sci. Aid.*

Date Investigations.

Walter T. Swingle, B. S., M. A., D. Sc., *Prin. Physiol.*

FIELD HEADQUARTERS.

California:

Indio—

Silas C. Mason, M. S., D. Sc., *Sr. Hort.*

A. J. Shamblin, *Assoc. Hort.*

Roy W. Nixon, B. S., *Asst. Hort.*

Los Angeles—

F. A. Thackery, D. Sc., *Sr. Agr.*

Smyrna Fig, Pistache, and Miscellaneous Investigations.

California—San Francisco:

G. P. Rixford, C. E., *Assoc. Physiol.*

DRUG, POISONOUS, AND OIL PLANTS

W. W. Stockberger, B. S., Ph. D., *Prin. Physiol., in charge.*

Drug Plants, Volatile Oils, Fixed Oils, and Waste Products Investigations.

Arthur F. Sievers, Pharm. G., B. S., *Sr. Biochem.*

Frank Rabak, Pharm. G., B. S., *Assoc. Biochem.*

Morris S. Lowman, B. A., *Jr. Biochem.*

Poisonous Plant Investigations.

Otis F. Black, A. M., *Sr. Biochem.*

Willard W. Eggleston, B. S., *Asst. Bot.*

James W. Kelly, Pharm. D., *Jr. Biochem.*

DRY LAND AGRICULTURE

E. C. Chilcott, B. S., M. S., *Prin. Agr., in charge.*

John S. Cole, B. S., *Sr. Agron.*

NORTHERN FIELD STATIONS (hdqrs., Mandan, N. Dak.).

John M. Stephens, B. S., *Prin. Agr. and Supvr., Northern group.*

Colorado—Akron:

Joseph F. Brandon, B. S., *Assoc. Agron., Supt.*

NORTHERN FIELD STATIONS—Continued.
Montana:
Havre—
George W. Morgan, B. S., *Assoc. Agron., Supt.*
Huntley—
Arthur E. Seamans, B. S., *Assoc. Agron.*
Moccasin—
Irving J. Jensen, B. S., M. S., *Agt, Supt.*
Nebraska—North Platte:
Leslie L. Zook, B. S., *Assoc. Physiol.*
Harry E. Weakly, B. S., *Jr. Agron.*
North Dakota:
Dickinson—
Leroy Moomaw, B. S., *Assoc. Agron., Supt.*
Mandan (hdqrs. of Supvr., Northern group)—
William P. Baird, B. S., *Assoc. Hort.*
Johnson T. Sarvis, B. S., M. S., *Assoc. Agron.*
John C. Thysell, B. S., *Assoc. Agron.*
Robert Wilson, B. S., *Assoc. Arbor.*
Thomas K. Killand, *Sr. Sci. Aid.*
South Dakota:
Ardmore—
Oscar R. Mathews, B. S., M. S., *Assoc. Agron., Supt.*
Verner I. Clark, *Sci. Aid.*
Newell—
Albert Osenbrug, B. S., *Assoc. Agron., Supt.*
Wyoming:
Archer—
August L. Nelson, B. S., M. S., *Assoc. Agron., Supt.*
Cheyenne—
John S. Kelso, *Sr. Sci. Aid and Farm Foreman.*
Sheridan—
Ray S. Towle, B. S., *Assoc. Agron., Supt.*

SOUTHERN FIELD STATIONS (hdqrs., Woodward, Okla.)
Ellery F. Chilcott, B. S., *Sr. Agr. and Supvr., Southern group.*
Kansas:
Colby—
Benjamin F. Barnes, B. S., *Agt., Supt.*
Garden City—
Embert H. Coles, B. S., *Assoc. Agron.*
Hays—
Alanson L. Hallsted, B. S., *Assoc. Agron.*
New Mexico—Tucumcari:
Donald R. Burnham, B. S., *Assoc. Agron., Supt.*
Oklahoma:
Lawton—
Walter M. Osborn, B. S., *Assoc. Agron., Supt.*

SOUTHERN FIELD STATIONS—Continued.
Oklahoma—Continued.
Woodward (hdqrs. of Supvr., Southern group)—
Lowell F. Locke, B. S., *Assoc. Hort.*
Texas:
Big Spring—
Fred E. Keating, B. S., *Assoc. Agron., Supt.*
Dalhart—
Harry J. Clemmer, B. S., *Assoc. Agron., Supt.*

FIBER PLANTS

Lyster H. Dewey, B. S., *Sr. Bot., in charge.*
H. T. Edwards, B. S., *Sr. Technol.*

FIELD HEADQUARTERS.
Michigan—East Lansing:
Brittain B. Robinson, M. S., *Asst. Pl. Breeder.*
Porto Rico—Mayaguez:
Rafael Vidal, *Agt.*
Wisconsin—Madison:
A. H. Wright, M. S., *Agt.*

FORAGE CROPS

Russel A. Oakley, B. S., D. Sc., *Prin. Agron., in charge.*

Clovers and Clover-like Legumes, Green Manure, and Cover Crops.
Adrian J. Pieters, B. S., Ph. D., *Sr. Agron.*
Eugene A. Hollowell, B. S., M. S., Ph. D., *Asst. Agron.*

Sorghums and Pasture and Meadow Grasses.
Harry N. Vinall, B. S., M. S., *Sr. Agron.*
Mason A. Hein, B. S., M. S., *Asst. Agron.*

Soybeans, Cowpeas, and Miscellaneous Legumes.
William J. Morse, B. S., *Sr. Agron.*

Alfalfa, Silage, and Turf Grasses.
Harvey L. Westover, B. S., *Sr. Agron.*

Vetches, Bur Clovers, and Crotalarias.
Roland McKee, B. S., M. S., *Sr. Agron.* (assists also in Green Manure and Cover Crop Investigations).

Melilotus (Sweet Clover) and Crimson Clover.
Leonard W. Kephart, B. S., *Sr. Agron.*

Arlington Farm Grass Garden and Greenhouse Work.
Percy L. Ricker, B. S., M. S., *Asst. Bot.*

Seed Storage and Shipment.
Fred C. Hall, *Sr. Sci. Aid.*

Field Stations.
South Dakota—Redfield:
Samuel Garver, B. S., *Assoc. Agron., in charge.*
Virginia—Rosslyn:
Charles W. Lee, *Sci. Aid, Asst. in field activ.*
Anselm T. Stone, *Sci. Aid, Asst. in field activ.*

Field Stations (Coop.).

Florida—Gainesville:
Charles R. Enlow, B. S., M. S., *Asst. Agron., in charge.*

Georgia—Tifton:
James L. Stephens, B. S., *Agt., in charge.*

Iowa—Ames:
F. Scott Wilkins, B. S., M. S., *Agt., in charge.*

Kansas—Hays:
Robert E. Getty, A. B., B. S., *Assoc. Agron., in charge.*

Mississippi:
McNeill—
Hiram R. Reed, B. S., *Asst. Agron., in charge.*
West Point—
Tyler F. Akers, B. S., M. S., *Asst. Agron., in charge.*

Nebraska—Lincoln:
Hewitt M. Tysdal, B. S., M. S., *Asst. Agron., in charge.*

Ohio—North Ridgeville:
Morgan W. Evans, B. S., M. S., *Assoc. Agron., in charge.*

Oregon—Corvallis:
Harry A. Schoth, B. S., M. S., *Assoc. Agron., in charge.*

South Carolina—Columbia:
Addison S. Laird, B. S., M. S., *Agt., in charge.*

Texas—Chillicothe:
Joseph C. Stephens, B. S., M. S., *Jr. Agron., in charge.*

Washington:
Pullman—
Oscar E. Barbee, B. S., M. S., *Agt., in charge.*
Waterville—
Charles E. Hill, B. S., *Agt., in charge.*

FOREIGN PLANT INTRODUCTION

Knowles A. Ryerson, B. S., M. S., *Sr. Hort., in charge.*

David Fairchild, M. S., D. Sc., *Prin. Agr. Expl.*

B. T. Galloway, B. Agr. Sc., LL. D., D. Agr., *Prin. Path.*

Foreign Explorations,
P. H. Dorsett, B. Agr. *Sr. Hort.*
Paul G. Russell, B. A., M. S., *Asst. Bot.*
FIELD HEADQUARTERS:
Algeria—Mustapha:
L. Trabut, M. D., *Collab.*
China—Yunnan:
Joseph F. Rock, *Collab.*
France—Nice:
A. Robertson Proschowsky, M. D., *Collab.*
New York—New York:
A. V. Armour, *Collab.*

Plant Propagation and Distribution.

C. C. Thomas, A. B., M. S., *Assoc. Hort.*
H. C. Skeels, B. S., *Assoc. Bot.*
F. J. Hopkins, B. A., *Asst. Hort.*
W. R. Poore, *Foreman Gardener.*
J. E. Taylor, *Sci. Aid.*
E. C. Rittue, *Head Gardener.*
Mabel Yates*, *Asst. Sci. Aid.*

FIELD HEADQUARTERS.
California—Chico:
J. E. Morrow, *Supt.*
B. D. Douglas, *Sr. Pl. Prop.*
C. H. Jackson, *Sr. Pl. Prop.*
Henry Klopfer, *Sr. Sci. Aid.*
D. M., Wallen, *Jr. Sci. Aid.*
Florida:
Coconut Grove—
Edward Simmonds, *Prin. Sci. Aid.*
D. L. Varmette, *Prin. Sci. Aid.*
Little River—
Charles T. Simpson, *Collab.*
Naples—
H. Nehrling, *Collab.*
Georgia—Savannah:
R. A. Young, B. S., *Assoc. Hort., Supt.*
David A. Bisset, *Chief Sci. Aid.*
Maryland—Glenn Dale:
H. A. Gunning, B. S., *Assoc. Hort., Supt.*
B. Y. Morrison, B. S., M. L. A., *Sr. Hort.*
Edward Goucher, *Chief Pl. Prop.*
A. W. Close, *Prin. Sci. Aid.*
V. M. Maroukian, *Head Gardener.*
C. A. Fitzgerald, *Asst. Sci. Aid.*
Massachusetts—Jamaica Plain—
E. H. Wilson, A. M., *Collab.*

Plant Geography in Relation to Plant Industry.

R. L. Piemeisel, A. B., *Assoc. Physiol.*

FOREST PATHOLOGY

Haven Metcalf, A. M., Ph. D., *Prin. Path., in charge.*
R. Kent Beattie, B. S., M. A., *Prin. Path.*
Carl Hartley, A. M., Ph. D., *Sr. Path.*
George G. Hedgcock, B. S., A. M., Ph. D., *Sr. Path.*
G. F. Gravatt, B. S., A. M., *Sr. Path.*
Lake S. Gill, A. B., *Asst. Path.*
Ruby J. Acree*, *Jr. Path.*
Lyle W. R. Jackson, B. S., *Jr. Path.*
Russell B. Clapper, *Asst. Sci. Aid.*

FIELD HEADQUARTERS.
California—San Francisco:
E. P. Meinecke, Ph. D., *Prin. Path.*
Willis W. Wagener, A. B., M. S., *Asst. Path.*
Ernest Wright, B. F., M. S., *Jr. Path.*
Connecticut—New Haven:
Rush P. Marshall, M. S., *Assoc. Path.*
Massachusetts—Amherst:
Perley Spaulding, M. S., Ph. D., *Sr. Path.*

FIELD HEADQUARTERS—Continued.
Massachusetts—Amherst—Continued.
J. R. Hansbrough, Ph. B., A. M., *Asst. Path.*
New Mexico—Albuquerque:
W. H. Long, A. M., Ph. D., *Sr. Path.*
North Carolina—Asheville:
R. M. Nelson, B. S., M. S., *Asst. Path.*
Oregon—Portland:
H. G. Lachmund, A. B., *Assoc. Path.*
J. L. Meilke, B. F., *Jr. Path.*
C. N. Partington, B. S., *Jr. Path.*
Rhode Island—Providence:
J. Franklin Collins, Ph. B., *Sr. Path.*
Nathaniel O. Howard, M. S., Ph. D., *Assoc. Path.*
Alma M. Waterman, A. M., Ph. D., *Jr. Path.*
Scotland—Edinburgh:
Glenn G. Hahn, M. S., *Asst. Path.*
Malcom Wilson, B. S., D. Sc., *Spec. in For. Path.*
Wisconsin—Madison:
C. Audrey Richards, A. M., Ph. D., *Assoc. Path.*
Caroline T. Rumbold, B. L., A. M., Ph. D., *Asst. Path.*
E. E. Seeliger, *Jr. Sci. Aid.*

FRUIT DISEASES

Merton B. Waite, B. S., D. Agr., *Prin. Path., in charge.*

General Orchard Disease Investigations.
Merton B. Waite, B. S., D. Agr. *Prin Path.*
J. Marion Shull, *Assoc. Bot.*
Eugene A. Siegler, M. S., *Assoc. Path*
Mary F. Morscher, B. S., *Sr. Sci. Aid.*
FIELD HEADQUARTERS.
Georgia:
Fort Valley—
Lee M. Hutchins, B. S., Ph. D., *Path.*
Thomasville—
Juan B. Damaree, B. S., *Assoc. Path.*
John R. Cole, M. S., *Asst. Path.*

Citrus and Subtropical Fruit Disease Investigations.
Harry R. Fulton, A. M., *Sr. Path.*
John J. Bowman, B. S., *Asst. Path.*
FIELD HEADQUARTERS.
Florida—Orlando:
Harold E. Stevens, B. S. A., M. S., *Sr. Path.*
John F. Wootten, *Sr. Sci. Aid.*

Grape and Small Fruit Disease Investigations.
C. L. Shear, B. S., A. M., Ph. D., *Prin. Path.*
Neil E. Stevens, A. M., Ph. D., *Sr. Path.*
————, *Path.*
Angie M. Beckwith, A. B., *Jr. Path.*
Marguerite S. Wilcox, *Sci. Aid.*
Francis T. Eagan, *Sci. Aid.*

Grape and Small Fruit Disease Investigations—Continued.
FIELD HEADQUARTERS.
Ohio—Wooster:
R. B. Wilcox, M. S., *Asst. Path.*

Orchard Spraying Investigations.
John W. Roberts, A. M., Ph. D., *Sr. Path.*
FIELD HEADQUARTERS.
Georgia—Fort Valley:
John C. Dunegan, B. S., *Asst. Path.*
Indiana—Vincennes:
Leslie Pierce, *Sr. Sci. Aid.*

Fruit Rots and Spots Investigations.
Charles Brooks, A. M., Ph. D., *Prin. Path.*
Erston V. Miller, B. S., M. S., Ph. D., *Asst. Pl. Physiol.*
FIELD HEADQUARTERS.
Washington—Wenatchee:
D. F. Fisher, B. S., M. H., *Sr. Path.*
C. P. Harley, M. S., *Assoc. Physiol.*

Perennial Apple Canker Investigations.
FIELD HEADQUARTERS.
Oregon—Hood River:
J. S. Cooley, M. S., Ph. D., *Sr. Path.*

Physiological Fruit Disease Investigations (field).
California—Fresno:
W. S. Ballard, A. B., *Sr. Path.*

Market Pathology Investigations.
————, *Path.*
FIELD HEADQUARTERS.
Illinois—Chicago:
Lowell F. Butler, B. S., *Asst. Path.*

GARDENS AND GROUNDS

J. Wise Byrnes, *Asst., in charge.*

HORTICULTURE

L. C. Corbett, B. S., M. S., D. Agr., *Prin. Hort., in charge.*

Fruit Improvement through Bud Selection (field).
California—Riverside:
A. D. Shamel, B. S., *Prin. Physiol.*
C. S. Pomeroy, Ph. B., B. S., *Assoc. Pomol.*
R. E. Caryl, B. S., M. S., *Asst. Pomol.*
Frank N. Harmon, B. S., M. S., *Jr. Pomol.*

Fruit and Vegetable Utilization Investigations.
J. S. Caldwell, A. B., A. M., Ph. D., *Sr. Physiol.*
C. A. Magoon, A. B., Ph. D., *Assoc. Bact.*
FIELD HEADQUARTERS.
Virginia—Rosslyn (Arlington Exp. Farm):
C. W. Culpepper, B. S., M. S., *Assoc. Physiol.*
B. C. Brunstetter, B. S., M. S., Ph. D., *Assoc. Biochem.*
H. H. Moon, B. S., *Sci. Aid.*

Fruit and Vegetable Handling, Transportation, and Storage Investigations.

Lon A. Hawkins, B. S., Ph. D., *Prin. Physiol.*
Dean H. Rose, A. B., M. A., Ph. D., *Sr. Physiol.*
R. C. Wright, B. S., M. S., *Assoc. Physiol.*
Mark H. Haller, B. S., M. S., *Asst. Pomol.*
A. F. Wahlstrom, *Draftsman.*

FIELD HEADQUARTERS.
California:
Lamanda Park—
Wm. R. Barger, B. S., *Assoc. Physiol.*
Los Angeles—
C. W. Mann, B. S., *Sr. Pomol.*
Virginia—Rosslyn (Arlington Exp. Farm):
Earl D. Mallison, B. S., *Asst. Mkt. Spec.*
Boyce D. Ezell, B. S., M. S., *Asst. Hort.*
W. T. Pentzer, B. S., M. S., *Asst. Physiol.*
James C. Moore, B. S., M. S., *Jr. Physiol.*
John P. Hare, B. S., M. E., *Sr. Sci. Aid.*
A. G. Galloway, *Prin. Sci. Aid.*
R. L. Newton, *Sr. Mech.*
J. F. Fernald, *Asst. Mech.*
Washington—Wenatchee:
H. C. Diehl, B. S., *Assoc. Physiol.*
L. A. Fletcher, B. S., M. S., *Jr. Physiol.*

Fruit Production Investigations.

H. P. Gould, B. S., M. S., *Sr. Pomol.*
Magdalene R. Newman, *Jr. Libr.*
R. C. Steadman, *Chief Sci. Illustr.*
Amanda A. Newton, *Sci. Illustr.*
Mary D. Arnold, *Sci. Illustr.*

FIELD HEADQUARTERS.
California—Sacramento:
C. F. Kinman, B. S., *Assoc. Pomol.*
Maryland—Glenn Dale:
George M. Darrow, A. B., A. M., Ph. D., *Sr. Pomol.*
George F. Waldo, B. S., M. S., *Asst. Pomol.*

Fruit Improvement through Breeding (field).

California—Palo Alto—
William F. Wight, B. S., A. M., *Bot.*

Grape Investigations.

George C. Husmann, B. S., M. S., *Assoc. Pomol.*
I. W. Dix, *Sci. Aid.*

FIELD HEADQUARTERS.
California:
Fresno—
Elmer Snyder, B. S., M. S., *Assoc. Pomol.*

Grape Investigations—Continued.

FIELD HEADQUARTERS—Continued.
California—Continued.
Napa—
Frederick L. Husmann, *Supt.*
North Carolina—Willard:
Charles T. Dearing, B. S., *Assoc. Hort.*

Potato Investigations.

William Stuart, B. S., M. S., D. Sc., *Sr. Hort.*
Charles F. Clark, B. S., M. S., Ph. D., *Assoc. Hort.*
W. M. Peacock, B. S., M. S., *Assoc. Hort.*

FIELD HEADQUARTERS.
Colorado—Greeley:
W. C. Edmundson, B. S., M. S., *Assoc. Hort. and Supt.*
Maine—Presque Isle:
P. M. Lombard, B. S., *Assoc. Hort.*

Truck Crop Production Investigations.

J. H. Beattie, B. S., *Assoc. Hort.*
Ross C. Thompson, B. S., M. S., *Assoc. Hort.*
A. M. Jackson, *Sci. Aid.*

Vegetable Extension (Coop. with Extension Service).

William R. Beattie, B. S., M. S., *Sr. Hort.*

Field Trials of Vegetable Seeds.

D. N. Shoemaker, B. S., Ph. D., *Assoc. Hort.*
E. Q. Knight, *Asst. Sci. Aid.*

Bulb Culture Investigations.

David Griffiths, B. S., M. S., Ph. D., *Sr. Hort.*

FIELD HEADQUARTERS.
Washington—Bellingham:
B. L. Peters, *Sr. Sci. Aid.*
Howard A. Houser, *Sci. Aid.*

Landscape Gardening and Floriculture Investigations.

F. L. Mulford, B. S., *Assoc. Hort.*
D. V. Lumsden, B. S., *Jr. Hort.*

FIELD HEADQUARTERS.
Maryland—Glenn Dale:
B. Y. Morrison, B. S., M. L. A., *Sr. Hort.*

Nursery Stock Investigations.

Guy E. Yerkes, B. S., *Assoc. Hort.*

FIELD HEADQUARTERS.
California—Shafter:
L. B. Scott, B. S., *Sr. Pomol.*
Maryland—Glenn Dale:
Charles F. Swingle, B. S., Ph. D., *Assoc. Pomol.*

Nut Culture Investigations.

Clarence A. Reed, B. S., M. H., *Assoc. Pomol.*
E. R. Lake, B. S., M. S., *Asst. Pomol.*

Nut Culture Investigations—Continued.
FIELD HEADQUARTERS.
California—Sacramento:
Milo N. Wood, B. S., M. S., *Assoc. Pomol.*
Georgia—Albany:
J. L. Pelham, B. S., *Assoc. Pomol.*

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Esther M. Colvin, A. B., *Jr. Libr.*
Martha A. Sherman, *Jr. Libr.*

MYCOLOGY AND DISEASE SURVEY

Cornelius L. Shear, B. S., A. M., Ph. D., *Prin. Path., in charge.*

Mycological Collections.
John A. Stevenson, B. S., *Sr. Mycol., in charge.*
Vera K. Charles, A. B., *Assoc. Path.*
William W. Diehl, M. S., *Assoc. Path.*
Anna E. Jenkins, M. S., Ph. D., *Assoc. Path.*
Edith K. Cash, A. B., *Jr. Path.*

Plant Disease Survey.
Royal J. Haskell, B. S., Ph. D., *Assoc. Path., in charge.*
G. Hamilton Martin, jr., B. S. F., M. S., *Asst. Path.*
Jessie I. Wood, A. B., A. M., *Asst. Path.*
FIELD HEADQUARTERS.
West Virginia—Morgantown:
William A. Archer, B. S., Ph. D., *Asst. Path.*

NEMATOLOGY

N. A. Cobb, B. S., Ph. D., *Prin. Nematol., in charge.*

Free-Living, Plant-Infesting, and Insect-Infesting Nemas; Mycorrhizal Investigations.
G. Steiner, B. S., M. A., Ph. D., *Sr. Nematol.*
E. G. Arzberger, Ph. B., M. A., *Asst. Path.*
Edna M. Buhrer, A. B., *Jr. Nematol.*
Ben G. Chitwood, A. B., *Jr. Nematol.*
Corinne Cooper, A. B., *Jr. Nematol.*
Helen M. Heinly, A. B., *Jr. Nematol.*
Grace W. Sherman, A. B., *Jr. Nematol.*
Charles B. Bateman, *Sr. Lab. Mech.*
Martin L. Harrison, *Sr. Lab. Mech.*
Margaret N. Corder, *Jr. Sci. Aid.*
Josephine F. Danforth,* *Jr. Sci. Aid.*
Eunice R. Harveycutter,* *Jr. Sci. Aid.*
Gertrude L. Power, *Jr. Sci. Aid.*
Florence E. Albin,* *Jr. Sci. Aid.*
FIELD HEADQUARTERS:
Utah—Salt Lake City:
Gerald Thorne, B. S., M. A., *Assoc. Nematol.*
Virginia—East Falls Church:
J. R. Christie, M. S., *Assoc. Nematol.*

PATHOLOGICAL LABORATORY

Directed by Assoc. Chief of Bureau.
Nellie A. Brown, A. B., *Assoc. Path.*
Charlotte Elliott, A. M., Ph. D., *Assoc. Path.*
R. E. B. McKenney, M. S., A. M., Ph. D., *Asst. Path.*
Florence Hedges, A. B., *Assoc. Path.*
Lucia McCulloch, B. S., *Assoc. Path.*
Mary K. Bryan, A. B., *Assoc. Path.*
Helen F. Smart,* A. B., *Jr. Path.*
Lillian C. Cash, A. B., *Jr. Path.*
Agnes J. Quirk, *Sr. Sci. Aid.*
Edna H. Fawcett, B. L., *Jr. Path.*
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H. Hasselbring, Ph. D., *Assoc. Physiol.*
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K. S. Markley, B. S., M. S., *Assoc. Biochem.*

SEED LABORATORY

Edgar Brown, Ph. B., *Prin. Bot., in charge.*

Seed Testing.
Emma F. Sirrine, M. S., *Asst. Bot.*
Leatha D. Bunting, A. B., A. M., *Jr. Bot.*
C. Christine Thygeson, B. S., *Jr. Bot.*
Nelle B. Wilkinson, Ph. B., *Jr. Bot.*
Albina F. Musill, A. B., *Jr. Bot.*

Seed Purity and Vitality Investigations.
Eben H. Toole, A. M., Ph. D., *Assoc. Physiol.*
F. H. Hillman, M. S., *Assoc. Bot.*
Helen H. Henry, *Asst. Bot.*
Alice M. Andersen, B. M., A. M., *Jr. Physiol.*

Federal Seed Act.
Willard L. Goss, B. S., LL. B., *Assoc. Bot.*
Emma F. Sirrine, M. S., *Asst. Bot.*
Alma L. Eggleston,* B. S., *Jr. Bot.*

Field Laboratories.
California—Sacramento:
Grace M. Cole, A. B., *Asst. Bot.*
Indiana—Lafayette:
Regina B. Schulte, A. B., *Jr. Bot.*
Missouri—Columbia:
Clara Fuhr, M. S., *Jr. Bot.*
Oregon—Corvallis:
Bertha C. Hite, A. B., *Asst. Bot.*

SUGAR PLANTS

E. W. Brandes, M. S., Ph. D., *Prin. Path., in charge.*

Sugar-Beet Investigations.
Ernst Artschwager, B. S., Ph. D., *Assoc. Path.*
S. F. Sherwood, B. S., *Assoc. Biochem.*
Ruth C. Starrett,* M. A., *Asst. Cytol.*

Sugar-Beet Investigations—Continued.
FIELD HEADQUARTERS.
California—Riverside:
Eubanks Carsner, B. A., M. S., Ph. D., *Sr. Path.*
C. F. Lackey, B. S., *Jr. Path.*
Colorado:
Fort Collins—
W. W. Tracy, jr., B. S., *Assoc. Agron.*
Rocky Ford—
Dewey Stewart, M. S., *Asst. Path.*
Michigan—East Lansing:
G. H. Coons. A. M., Ph. D., *Sr. Path.*
J. G. Lill, M. S., *Assoc. Agron.*
E. E. Down, B. S., M. A., *Agt.*
Charles A. Lavis, B. S., *Agt.*
New Mexico—State College:
John C. Overpeck, M. S., *Agt.*
Utah:
Logan—
C. M. Tompkins, B. S., Ph. D., *Asst. Path.*
Salt Lake City—
S. B. Nuckols, B. S., A. M., *Assoc. Agron.*
Dean A. Pack, A. B., Ph. D., *Assoc. Agron.*

Sugar-Cane Investigations.
R. D. Rands, M. S., Ph. D., *Sr. Path.*
P. A. Yoder, A. M., Ph. D., *Assoc. Technol.*
Ernst Artschwager, B. S., Ph. D., *Assoc. Path.*
S. F. Sherwood, B. S., *Assoc. Biochem.*
G. B. Sartoris, M. S., Ph. D., *Assoc. Path.*
Ruth C. Starrett*, M. A., *Asst. Cytol.*
FIELD HEADQUARTERS.
Florida—Canal Point:
B. A. Bourne, B. S., *Asst. Path.*
C. P. Sheffield, *Agt.*
Georgia—Cairo:
P. A. Yoder, A. M., Ph. D., *Assoc. Technol.*
Louisiana—Houma:
George Arceneaux, B. S., *Agt.*
R. T. Gibbens, B. S., *Agt.*
F. D. Stevens, M. S., *Assoc. Agron.*
Virginia—Rosslyn (Arlington Exp. Farm):
H. B. Cowgill, M. S. A., *Asst. Agron.*

TOBACCO AND PLANT NUTRITION

W. W. Garner, A. B., Ph. D., *Prin. Physiol. in charge.*

Cigar Filler Production Investigations (field).
New York—Baldwinsville:
G. W. Harris, *Prin. Sci. Aid.*
Pennsylvania—Ephrata:
Otto Olson, *Assoc. Agron.*

Flue-Cured Tobacco Production Investigations (Field).
Georgia—Tifton:
J. M. Carr, B. S., *Agt.*

Flue-Cured Tobacco Production Investigations—Continued.
North Carolina:
Oxford—
E. G. Moss, B. S., *Sr. Agron.*
Rocky Mount—
J. P. Young, *Sci. Aid.*

Burley Tobacco Production Investigations (Field).
West Virginia—Lakin:
T. C. McIlvaine, M. S., Ph. D., *Agt.*

Maryland Tobacco Production Investigations (Field).
Maryland—Upper Marlboro:
D. E. Brown, *Prin. Sci. Aid.*

Dark Air-Cured Tobacco Production Investigations (Field).
Virginia—Bowling Green:
W. W. Green, *Agt.*

Dark Fire-Cured Tobacco Production Investigations (Field).
Tennessee—Clarksville:
H. W. Jones, *Agt.*

Tobacco-Disease Investigations (Field).
Georgia—Tifton:
R. C. Thomas, M. S., *Agt.*
Massachusetts—Amherst:
H. F. Murwin, B. S., *Agt.*
Wisconsin—Madison:
James Johnson, M. S., Ph. D., *Agt.*

Physiology and Nutrition of the Tobacco Plant.
W. M. Lunn, M. S., *Assoc. Agron.*
J. E. McMurtrey, jr., B. S., M. S., *Asst. Physiol.*
J. D. Bowling, jr., B. S., *Asst. Biochem.*

Effect of Length of Day on Plant Growth.
H. A. Allard, B. S., *Sr. Physiol.*
C. W. Bacon, A. M., Ph. D., *Assoc Physiol.*
R. A. Steinberg, B. S., M. A., Ph. D., *Asst. Physiol.*
FIELD HEADQUARTERS.
Virginia—Rosslyn (Arlington Exp. Farm):
A. B. Creed, *Sci. Aid.*

VEGETABLE AND FORAGE DISEASES

Directed by Assoc. Chief of Bureau.

Cotton Diseases (Field).
Texas—Greenville:
David C. Neal, M. A., Ph. D., *Sr. Path.*

Forage-Crop Diseases (Field).
Kansas—Manhattan:
James L. Weimer, A. B., Ph. D., *Sr. Path.*
Paul J. McCroskey, *Agt.*
Wisconsin—Madison:
Fred R. Jones, B. S., M. S., Ph. D., *Sr. Path.*

Miscellaneous Horticultural-Crop Diseases.
Leonard L. Harter, A. B., M. S., Ph. D., *Sr. Path.* (*sweet potato and bean diseases*).

Miscellaneous Horticultural-Crop Diseases—Continued.

William W. Gilbert, B. S., M. S., *Sr. Path.* (*cucurbit diseases*).

John I. Lauritzen, B. S., Ph. D., *Assoc. Path.* (*storage disease of vegetables, and mkt. path.*).

Freeman Weiss., B. S., Ph. D., *Assoc. Path.* (*diseases of ornamentals*).

Charles Drechsler, B. S., M. S., Ph. D., *Assoc. Path.* (*taxonomy of fungi*).

William J. Zaumeyer, B. S., M. S., Ph. D., *Asst. Path.* (*bean diseases*).

W. A. Whitney, B. S., *Jr. Path.* (*sweet potato and bean diseases*).

Ellen A. Fenner, A. B., *Jr. Path.* (*diseases of ornamentals*).

Lester E. Barrett, LL. B., LL. M., M. P. L., *Sci. Aid* (*culture media preparation*).

Ernest Dopp, B. A., M. A., *Asst. Sci. Aid* (*cucurbit diseases*)

C. Fred Andrus, *Asst. Sci. Aid* (*sweet potato diseases*).

FIELD HEADQUARTERS.

California—Chula Vista:

Ivan C. Jagger, B. S., M. S., *Sr. Path.* (*lettuce and misc. horticultural-crop diseases*).

Norman Chandler, *Asst. Sci. Aid* (*lettuce and misc. horticultural-crop diseases*).

Illinois—Chicago:

Glen B. Ramsey, A. M., Ph. D., *Sr. Path.* (*mkt. path.*).

Alice A. Bailey,* B. S., M. S., *Asst. Path.* (*mkt. path.*).

Oregon—Corvallis:

Marion B. McKay, B. S., M. S., *Agt.* (*diseases of ornamentals and curlytop diseases of vegetables*).

Philip Brierley, A. B., M. S., *Asst. Path.* (*diseases of ornamentals*).

Wisconsin—Madison:

John C. Walker, M. S., Ph. D., *Agt.* (*onion and cabbage diseases*).

Sears P. Doolittle, B. S., M. S., Ph. D., *Sr. Path.* (*mosaic diseases of vegetables*).

Arthur C. Foster, B. S., M. S., *Sr. Path.* (*celery, lettuce, and escarolle diseases*).

Frederick L. Wellman, A. B., M. S., *Agt.* (*onion and cabbage diseases*).

Gustav H. Rieman, B. S., *Agt.* (*bean diseases*).

Potato Diseases.

Freeman Weiss, B. S., Ph. D., *Assoc. Path.*

FIELD HEADQUARTERS.

Colorado—Greeley:

Howard G. MacMillan, M. S., Ph. B., Ph. D., *Sr. Path.*

Lawrence A. Schaal, B. S., M. S., *Asst. Path.*

Maine—Presque Isle:

Eugene S. Schultz, B. S., M. S., Ph. D., *Sr. Path.*

Walter P. Raleigh, B. S., M. S., *Agt.*

Oregon—Corvallis:

Marion B. McKay, B. S., M. S., *Agt.*

Theodore P. Dykstra, B. S., M. S., *Jr. Path.*

Tomato Diseases.

Frederick J. Pritchard, B. S., *Sr. Physiol.*

William S. Porte, B. S., *Asst. Path.*

FIELD HEADQUARTERS.

California—Riverside:

Michael Shapovalov, A. B., M. S, *Sr. Path.*

F. Sidney Beecher, *Sci. Aid.*

WESTERN IRRIGATION AGRICULTURE

C. S. Scofield, B. Agr., *Prin. Agr., in charge.*

FIELD HEADQUARTERS.

Arizona—Tucson:

J. F. Breazeale, B. S., *Sr. Biochem.*

California—Bard:

E. G. Noble, B. S., *Assoc. Agron., Farm Supt.*

Montana—Huntley:

Daniel Hansen, *Assoc. Agron., Farm Supt.*

Nebraska—Mitchell:

J. A. Holden, B. S., *Assoc. Agron., Farm Supt.*

Nevada—Fallon:

Elmer W. Knight, B. S., *Asst. Agron.*

Oregon—Hermiston:

H. K. Dean, B. S., *Assoc. Agron., Farm Supt.*

South Dakota—Newell:

Beyer Aune, B. Agr., *Assoc., Agron., Farm Supt.*

Texas—San Antonio:

George T. Ratliffe, B. S., *Assoc. Agron., Farm Supt.*

George Y. Blair, B. S., *Jr. Pomol.*

Washington—Prosser:

Coulsen C. Wright, B. S., *Asst. Agron.*

FOREST SERVICE

Robert Y. Stuart, A. B., A. M., M. F. *For.*

Edward A. Sherman, B. S., M. F., D. Sc., *Assoc. For.*

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Finance and Accounts.

H. I. Loving, *Chief.*

O. A. Zimmerli, *Gen. Asst.*

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Roy Headley, *Asst. For., in charge.*

E. W. Loveridge, B. S., *Insp.*

G. G. Anderson, *Admin. Asst.*

Henry Wold, *Exec. Asst.*
G. M. Randal, *Chief of Maintenance.*

Supply Depot, Ogden, Utah.
Frank Haynie, *Property Asst. and Purchasing Agt.*

BRANCH OF FOREST MANAGEMENT

E. E. Carter, A. B., M. F., *Asst. For., in charge.*
Harry Irion, LL. B., *Admin. Asst.*
Joseph C. Kircher, A. B., M. F., *For. Insp.*
J. A. Fitzwater, M. F., *For. Insp.*

BRANCH OF GRAZING

C. E. Rachford, *Asst. For., in charge.*
Robert R. Hill, A. B., *Insp. of Grazing.*

BRANCH OF LANDS

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D. F. McGowan, LL. B., *Insp. of Lands.*
C. H. Squire, A. B., *Insp. of Lands.*
J. E. Burch, *Asst. in Acquisition.*

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R. E. Marsh, B. S., M. F., *Asst. Chief.*
Harry Irion, LL. B., *Admin. Asst.*
Clarke F. Hunn, B. A., *Ed.*

Forest Products.
H. S. Betts, M. E., *Engr., in charge.*
W. D. Brush, B. S., A. M., *For. Exam.*
R. K. Helphenstine, jr., *Stat.*

Forest Experiment Stations.
Edward N. Munns, B. S., M. S. F., *Silv., in charge.*
F. H. Eyre, B. S., *Assoc. Silv.*
Perkins Coville, B. S., M. F., *Assoc. Silv.*
Donald Bruce, A. B. M. F., *Silv.*
L. H. Reineke, *Asst. Silv. (forest measurements).*
V. V. Clements, B. S., M. F., *Jr. For.*
Helen E. Stockbridge, *Libr.*

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Arizona — Flagstaff (Southwestern Sta.) :
G. A. Pearson, B. S., M. A., *Silv.*
Herman Krauch, B. S., *Assoc. Silv.*
B. R. Lexen, B. S., M. F., *Asst. Silv.*
California—Berkeley (California Sta., in coop. with Univ. of Calif.) :
E. I. Kotok, B. A., M. A., *Dir.*
C. L. Hill, A. B., M. S. F., *For.*
W. C. Lowdermilk, B. S., B. A., *Silv.*
Charles J Kraebel, M. F., *Silv.*
Duncan Dunning, M. S., *Assoc. Silv.*
A. E. Wieslander, B. A., M. F., *Assoc. Silv.*
M. R. Brundage, B. S., *Tech. Asst.*
H. W. Siggins, B. S., M. F., *Asst. Silv.*
Colorado—Colorado Springs (Rocky Mountain Sta.) :
J. Roeser, jr., F. E., *For. Exam.*

Forest Experiment Stations—Continued.
FIELD HEADQUARTERS—Continued.
Louisiana—New Orleans (Southern Sta.) :
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Lenthall Wyman, B. A., M. F., *Assoc. Silv.*
L. J. Pessin, B. S., Ph. D., *Assoc. For. Ecol.*
W. G. Wahlenberg, B. S., M. F., *Asst. Silv.*
L. I. Barrett, B. S., *Jr. For.*
V. L. Harper, A. B., *Jr. For.*
P. C. Wakeley, B. S., M. F., *Asst. Silv.*
F. I. Righter, B. S., M. F., *Jr. For.*
Massachusetts — Amherst (Northeast Sta.), in coop. with Mass. Agr. Col. :
J. S. Boyce, B. S., M. F., Ph. D., *Dir.*
M. Westveld, B. S., M. F., *Assoc. Silv.*
P. W. Stickel, A. B., M. S., *Asst. Silv.*
R. G. Wheaton, B. S., M. F., *Asst. Silv.*
C. E. Behre, A. B., M. F., *Agt.*
P. R. Gast, A. B., M. S., *Agt.*
Minnesota :
Cloquet (Cloquet Sta.), in coop. with Lake States Sta.—
T. Shantz Hansen, *Asst.*
St. Paul (Lakes States Sta.), in coop. with Univ. of Minn.—
Raphael Zon, A. B., B. S., F. E., *Dir.*
Joseph Kittredge, jr., A. B., M. F., *Silv.*
J. A. Mitchell, B. S., *Silv.*
J. L. Averell, A. B., M. S. F., *Jr. For.*
H. F. Scholz, *Jr. For.*
S. R. Gevorkiantz, B. S., M. F., *Jr. For.*
Montana—Missoula (Northern Rocky Mountain Sta.) :
R. H. Weidman, A. B., *Dir.*
H. T. Gisborne, B. S. F., *Assoc. Silv.*
Robert Marshall, A. B., M. S., *Asst. Silv.*
I. T. Haig, B. S. F., M. F., *Asst. Silv.*
G. Kempff, *Jr. For.*
North Carolina—Asheville (Appalachian Sta.) :
Earl H. Frothingham, A. B., M. S. F., *Dir.*
Clarence F. Korstian, B. S., M. F.., Ph. D., *Silv.*
Chas. R. Hursh, A. B., M. S., Ph. D., *Assoc. For. Ecol.*
F. W. Haasis, A. B., M. F., Ph. D., *Asst. Silv.*
Jesse H. Buell, A. B., M. S. F., *Asst. Silv.*
Ivan H. Sims, A. B., M. F., *Jr. For.*
A. L. McKinney, A. B., M. F., *Jr. For.*

Forest Experiment Stations—Continued.
FIELD HEADQUARTERS—Continued.
North Carolina—Asheville—Continued.
C. A. Abell, B. S., *Jr. For.*
A. B. Hatch, B. S., *Jr. Range Exam.*
Ohio — Columbus (Central States Sta.) :
E. F. McCarthy, B. S., M. S. F., *Dir.*
Bernard S. Meyer, B. A., M. A., Ph. D., *Assoc. For. Ecol.*
R. K. Day, B. S., *Asst. Silv.*
L. F. Kellogg, A. B., M. S. F., *Asst. Silv.*
John H. Hanley, A. B., *Jr. For.*
Oregon—Portland (Pacific Northwest Sta.) :
T. T. Munger, B. A., M. F., *Dir.*
Walter H. Meyer, A. B., M. F., *Assoc. Silv.*
L. A. Isaac, B. S. F., *Asst. Silv.*
R. E. McArdle, B. S., *Asst. Silv.*
R. H. Westveld, M. F., *Asst. Silv.*
E. L. Kolbe, B. S., M. F., *Jr. For.*
Pennsylvania — Philadelphia (Allegheny Sta.) :
R. D. Forbes, B. A., M. F., *Dir.*
A. P. Kelley, B. S., M. A., Ph. D., *Assoc. For. Ecol.*
G. L. Schnur, B. S., M. F., *Jr. For.*
H. J. Lutz, B. S., M. F., *Assoc. Silv.*
H. L. Sundling, B. S., M. F., *Asst. Silv.*
O. M. Wood, B. A., M. S., M. F., *Asst. Silv.*
A. F. Hough, A. B., M. F., *Asst Silv.*

Range Research.
William R. Chapline, B. S., *Insp. of Grazing, in charge.*
William A. Dayton, M. A., *Assoc. Pl. Ecol. (forage inv.).*
Doris W. Hayes, A. B., M. A., *Jr. Pl. Ecol.*

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Arizona—Continental (Santa Rita Reserve) :
Matt. J. Culley, *Dir.*
Warren V. Turner, B. S., *Jr. Range Exam.*
New Mexico—Las Cruces (Jornada Reserve) :
R. S. Campbell, A. B., *Acting Dir.*
R. H. Canfield, B. S. F., *Jr. Range Exam.*
Utah—Ogden (Great Basin Exp. Sta.) :
Clarence L. Forsling, B. S., *Dir.*
Enoch W. Nelson, B. S., *Assoc. Range Exam.*

Economic Investigations.
R. E. Marsh, B. S., M. F., *in charge.*
W. N. Sparhawk, B. A., M. F., *For. Econ.*
R. V. Reynolds, B. S., *For. Exam.*

Economic Investigations—Continued.
A. H. Pierson, B. A., *For. Exam.*
Forest Taxation.
Fred R. Fairchild, B. A., Ph. D., *For. Taxation Econ.*
H. H. Chapman, B. S., B. Agr., M. F., *Sr. For.*
R. Clifford Hall, B. S., M. F., *Sr. For.*
L. S. Murphy, B. S., M. F., *For. Econ.*
P. A. Herbert, B. F., M. F., *Assoc. For.*
C. H. Hammar, B. S., *Asst. For.*
Daniel Pingree, B. S., M. F., *Jr. For.*

Forest Products Laboratory, Madison, Wis.
Carlile P. Winslow, Ph. B., *Dir.*
Ray C. Tuttle, B. A., *Admin. Off.*
E. F. White, M. F., *For.*
H. D. Tiemann, M. E., M. F., *Phys. and Expert in Kiln Drying.*
(1) Publication of Results.
Wallace W. Weber, M. S. F., *Assoc. For., acting in charge.*
C. M. Arthur, B. S., *Tech. Reviewer.*
D. G. Coleman, B. A., *Tech. Reviewer.*
F. J. Champion, *Sr. Sci. Illustr.*
T. J. Mosley, M. A., Tech. Reviewer.
(2) Derived Products.
L. F. Hawley, Ph. D., *Sr. Chem., in charge.*
E. C. Sherrard, Ph. D., *Chem., Asst.*
E. Bateman, Ph. B., *Chem.*
R. H. Baechler, Ph. D., *Asst. Chem.*
Ed. Beglinger, *Jr. Chem.*
P. B. Davidson, Ph. D., *Asst. Chem.*
L. C. Fleck, Ph. D., *Asst. Chem.*
E. F. Kurth, B. S., *Jr. Chem.*
Geo. J. Ritter, Ph. D., *Assoc. Chem.*
A. J. Stamm, Ph. D., *Assoc. Chem.*
(3) Pulp and Paper.
C. C. Heritage, B. S., *Sr. Engr., in charge.*
C. E. Curran, Ph. D., *Chem., Asst.*
P. K. Baird, M. A., *Chem.*
M. W. Bray, M. S., *Assoc. Chem.*
G. H. Chidester, B. S., *Asst. Chem.*
R. H. Doughty, M. S., *Asst. Engr.*
W. H. Monsson, M. S., *Assoc. Engr.*
C. E. Hrubesky, M. S., *Asst. Chem.*
E. R. Schafer, B. S., *Assoc, Engr.*
F. A. Simmonds, B. S., *Jr. Chem.*
(4) Timber Mechanics.
J. A. Newlin, B. S., *Sr. Engr., in charge.*
L. T. Markwardt, C. E., *Engr., Asst.*
T. A. Carlson, M. S., *Assoc. Engr.*

Forest Products Laboratory, Madison, Wis.—Continued.

(4) Timber Mechanics—Continued.

J. M. Gahagan, *Asst. Engr.*
Geo. E. Heck. M. S., *Engr.*
I. B. Lamphier, C. E., *Assoc. Engr.*
R. F. Luxford, M. S., *Assoc. Engr.*
C. A. Plaskett, C. E., *Engr.*
G. W. Trayer, C. E., *Engr.*
T. R. C. Wilson, C. E., *Engr.*

(5) Timber Physics.

Rolf Thelen, B. S., *Engr., in charge.*
J. S. Mathewson, M. E., *Engr., Asst.*
L. L. DeFlon, M. S., *Asst. Wood Technol.*
W. K. Loughborough, *Assoc. Engr.*
E. C. Peck, M. F., *Assoc. Wood Technol.*
R. C. Rietz, B. A., *Asst. Engr.*
L. V. Teesdale, *Engr.*
O. W. Torgeson, B. S., *Assoc. Engr.*

(6) Wood Technology.

Arthur Koehler, B. S., *Spec. in Wood Structure, in charge.*
Eloise Gerry, Ph. D., *Micros.*
B. H. Paul, M. F., *Assoc. Silv.*
A. I. Weinstein, Ph. D., *Asst. Physiol., Pl. Anatomist.*
M. Y. Pillow, B. S., *Jr. Wood Technol.*
Gertrude Griffin, *Xylotomist.*

(7) Wood Preservation.

Geo. M. Hunt, B. S., *Chem., in charge.*
T. R. Truax, M. S., *Wood Technol., Asst.*
Don Brouse, M. S., *Asst. Engr.*
F. L. Browne, Ph. D., *Chem.*
M. E. Dunlap, B. S., *Engr.*
C. A. Harrison, *Jr. Engr.*
J. D. MacLean, M. E., *Engr.*
R. M. Wirka, B. S., *Assoc. Engr.*

(8) Industrial Investigations.

Carroll V. Sweet, M. F., *Engr., in charge.*
R. D. Garver, B. S., *For., Asst.*
A. O. Benson, B. S., *Wood Technol.*
J. B. Cuno, M. F., *Assoc. Wood Technol.*
E. M. Davis, M. F., *Assoc. Wood Technol.*
R. P. A. Johnson, M. S., *Assoc. Engr.*
Raymond Miller, B. S., *Asst. Engr.*
G. C. Morebeck, M. F., *Assoc. Wood Technol.*

(9) Pathology (in coop. with Bur. of Pl. Ind.).

C. Audrey Richards, A. M., Ph. D., *Asst. Path., in charge.*
Caroline T. Rumbold, A. M., Ph. D., *Asst. Path.*

Forest Products Laboratory, Madison, Wis.—Continued.

(10) Laboratory Operation.

A. L. Heim, B. S., *Engr., in charge.*
C. P. Juckem, *Asst.*
M. E. Diemer, Ph. D., *Assoc. Chem.*
Ellen Hoffman, *Prin. Libr. Asst.*
B. L. Nelson, B. A., *Assoc. Engr.*

(11) Finance and Accounts.

W. E. Thompson, A. B., *Fiscal Agt., in charge.*
S. H. Busch, *Dep. Fiscal Agt.*

BRANCH OF ENGINEERING

T. W. Norcross, B. S. (C. E.), *Chief Engr., in charge.*
G. H. Lautz, B. S. (C. E.), *Asst. Chief Engr.*
M. S. Wright, *Asst. Engr.*

Maps and Surveys.

M. S. Wright, *Asst. Engr., in charge.*
Helen B. Smith, *in charge of Wash. off. (and map reproductions).*
J. M. Witherow, *Chief Draftsman.*
E. S. Shipp, *Chief Photographer.*
G. B. Bruce, *in charge of Atlas records.*

Roads.

G. H. Lautz, B. S. (C. E.), *Asst. Chief Engr.*

Water Power.

T. W. Norcross, B. S. (C. E.), *Chief Engr.*

BRANCH OF PUBLIC RELATIONS

J. G. Peters, A. B., M. F., *Asst. For., in charge.*

Special Assignments.

Herbert A. Smith, B. A., Ph. D., *Asst. For.*

Cooperation with Timberland Owners.

Austin Cary, M. A., Sc. D., *Log. Engr.*

Division of State Cooperation.

A. B. Hastings, A. B., M. F., *For. Insp., in charge.*
C. R. Tillotson, B. S., *Dist. For. Insp.*
G. T. Backus, F. E., *Dist. For. Insp.*
C. F. Evans, A. B., M. F., *Dist. For. Insp.*
S. H. Marsh, A. B., M. F., *Dist. For. Insp.*
E. M. Bruner, M. A., M. F., *Dist. For. Insp.*
H. N. Wheeler, M. A., *Lecturer.*

Farm Forestry.

W. R. Mattoon, A. B., M. F., *Ext. For.*

Division of Information.

Ward Shepard, A. B., M. F., *For. Insp., in charge.*
L. C. Everard, M. A., *Ed., and in charge of Educational Coop.*
Jean Kerr, M. A., *Asst. Ed. For. Worker.*
C. M. Ballard, *Chief of Pubs.*
C. E. Randall, A. B., *in charge of Information for the Press.*

Division of Information—Continued.
H. R. Kylie, *in charge of Visual Education.*
Edward Burkholder, *in charge of Printing and Distribution.*
Lilian T. Conway, *Educational Asst., in charge of club work.*

DISTRICT 1—Northern District

Montana, northeastern Washington, northern Idaho, and northwestern South Dakota (hdqrs., Missoula, Mont.).
Fred Morrell, B. S., M. F., *Dist. For.*

Public Relations.
Theodore Shoemaker, *in charge.*
K. D. Swan, B. S., M. F., *Asst.*

Finance and Accounts.
O. M. Wold, *Dist. Fiscal Agt.*
S. E. Schoonover, *Dep. Fiscal Agt.*

Operation.
L. C. Stockdale, *Asst. Dist. For.*
G. I. Porter, *Admin. Asst.*
W. P. Hillman, *Exec. Asst.*
(1) Fire Protection.
Howard R. Flint, *Insp.*
John McLaren, *Insp.*
(2) Improvements.
D. L. Beatty, *Insp.*
C. P. Fickes, *Insp.*
(3) Law Enforcement.
P. J. O'Brien, LL. B., *Insp.*
(4) State Cooperative Fire Protection under Clarke-McNary Act.
R. N. Cunningham, B. S., *Insp.*
(5) Maintenance.
O. C. Bradeen, *Purchasing Agt., in charge.*

Forest Management.
Elers Koch, B. S., M. F., *Asst. Dist. For.*
Wilfred W. White, M. S., M. S. F., *Admin. Asst.*
(1) Logging Engineering.
Phillip Neff, *Dist. Log. Engr.*
Clyde S. Webb, *Log. Engr.*
(2) Timber Surveys.
R. J. Smith, M. S. F., *Chief of Party.*
A. B. Bowman, B. S. F., *Asst.*
(3) Planting (Haugan, Mont.).
D. S. Olson, *in charge.*
G. W. Jones, *in charge, Savenac Nursery.*
(4) Forest Insect Investigations (Coeur d'Alene, Idaho).
J. C. Evenden, *Ent.*
(5) Products.
M. Bradner, B. S. F., *in charge.*
I. V. Anderson, B. S. F., *Asst.*
C. N. Whitney, Ph. B., M. F., *Tech. Asst.*

Range Management.
Glen A. Smith, *Asst. Dist. For.*
Thomas Lommasson, *Admin. Asst.*
Arthur Cramer, B. S., *Asst. Range Exam.*
H. E. Schwan, *Jr. Range Exam.*

Lands.
M. H. Wolff, Ph. B., M. F., *Asst Dist. For.*
(1) Land Exchange.
H. G. Ade, B. S. F., *Insp.*
F. K. Stewart, *Chief Surv.*
(2) Claims.
C. A. McElroy, *Chief Mineral Exam.*

Engineering.
F. E. Thieme, B. S., (C. E.), *Dist. Engr.*
(1) Maps and Surveys.
J. B. Yule, *Asst. Dist. Engr.*
Frank J. Coole, *Chief Draftsman.*
W. P. Stephenson, *Chief Surv.* (*entry surveys*).
(2) Roads.
F. E. Thieme, B. S. (C. E.), *Dist. Engr.*
H. A. Calkins, *Project Engr.*
W. P. Stephenson, *Chief Surv.*
(3) Water Power.
F. E. Thieme, B. S. (C. E.), *Dist. Eng.*
Harold Townsend, *Chief Surv.*
Richard P. Hilleary, *Chief Surv.*

National Forests.
Idaho:
Clearwater (hdqrs., Orofino, Idaho)—
Paul A. Wohlen, *Supvr.*
Paul H. Gerrard, B. S. F., *Asst. Supvr.*
J. L. Rutledge, *Asst. Supvr.*
Coeur d'Alene (hdqrs., Coeur d'Alene, Idaho)—
Charles K. McHarg, jr., Ph. B., M. F., *Supvr.*
A. J. Roche, *Asst. Supvr.*
Howard Drake, *Log. Engr.*
Thomas Crossley, *Chief Lumberman.*
H. H. Gurley, B. S. F., *Tech. Asst.*
Nezperce (hdqr., Grangeville, Idaho)—
R. A. Phillips, *Supvr.*
Guy M. Brandborg, *Asst. Supvr.*
C. D. Blake, *Asst. Supvr.*
Pend Oreille (hdqrs., Sandpoint, Idaho)—
E. T. Wolf, B. S. F., *Supvr.*
L. F. Jefferson, *Asst. Supvr.*
G. M. De Jarnette, B. S. F., *Tech. Asst.*
Selway (hdqrs., Kooskia, Idaho)—
Kenneth Wolfe, B. S., *Supvr.*
Chas. A. MacGreggor, *Asst. Supvr.*
J. C. Urquhart, *Asst. Supvr.*
St. Joe (hdqrs., St. Maries, Idaho)—
Eldon M. Myrick, *Supvr.*
J. E. Breen, *Asst Supvr.*
Frank Foltz, B. S. F., *Asst. Supvr.*
George C. Earle, *Chief Lumberman.*
Montana:
Absaroka (hdqrs., Livingston, Mont.)—
G. E. Martin, *Supvr.*
Wm. M. Rush, *Asst. Supvr.*
Beartooth (hdqrs., Billings, Mont.)—
R. Trevor Ferguson, B. S., *Supvr.*

National Forests—Continued.
Montana—Continued.
Beaverhead (hdqrs., Dillon, Mont.)—
J. C. Whitam, B. S. F., *Supvr.*
H. W. Elofson, B. S. F., *Tech. Asst.*
W. G. Hoar, B. S., *Tech. Asst.*
Bitterroot (hdqr., Hamilton, Mont.)—
John W. Lowell, *Supvr.*
A. C. Adams, *Asst. Supvr.*
Blackfeet (hdqrs., Kalispell, Mont.)—
W. M. Nagel, B. S. F., *Supvr.*
Adolph Weholt, *Asst. Supvr.*
J. H. Bosworth, *Chief Lumberman.*
Cabinet (hdqrs., Thompson Falls, Mont.)—
Ray R. Fitting, *Supvr.*
Carl H. Siria, *Asst. Supvr.*
C. F. Makibbin, B. S. F., *Tech, Asst.*
Custer (hdqrs., Miles City, Mont.)—
Alva A. Simpson, *Supvr.*
Earl D. Sandvig, B. S., *Asst. Supvr.*
E. W. Hartwell, B. S. F., *Tech. Asst.*
Deerlodge (hdqrs., Butte, Mont.)—
John B. Taylor, A. B., M. F., *Supvr.*
J. N. Templer, *Asst. Supvr.*
Flathead (hdqrs., Kalispell, Mont.)—
Lloyd G. Hornby, A. B., M. S. F., *Supvr.*
C. J. Hash, *Asst. Supvr.*
W. I. White, B. S. F., *Asst. Supvr.*
Gallatin (hdqrs., Bozeman, Mont.)—
A. H. Abbott, *Supvr.*
C. B. Swim, *Asst. Supvr.*
Helena (hdqrs., Helena, Mont.)—
Leon C. Hurtt, B. S., *Supvr.*
H. H. Hendron, B. S. F., *Tech. Asst.*
Jefferson (hdqrs., Great Falls, Mont.)—
Wilford B. Wiley, M. F., *Supvr.*
A. A. Brown, B. S. F., *Asst. Supvr.*
Kootenai (hdqrs., Libby, Mont.)—
Frank J. Jefferson, *Supvr.*
Justin K. Dwinelle, *Asst. Supvr.*
R. W. Billings, B. S. F., *Tech. Asst.*
Lewis and Clark (hdqrs., Choteau Mont.)—
Wm. E. Lockhart, *Supvr.*
A. D. Moir, *Asst. Supvr.*
Lolo (hdqrs., Missoula, Mont.)—
Chas. D. Simpson, B. S., *Supvr.*
Thomas A. Clapp, B. S., *Asst. Supvr.*
Madison (hdqrs., Sheridan, Mont.)—
Walter J. Derrick, *Supvr.*
F. T. Carroll, *Asst. Supvr.*
Missoula (hdqrs., Missoula, Mont.)—
J. F. Brooks, B. S. F., *Supvr.*
John H. Clack, *Asst. Supvr.*
Washington:
Kaniksu (hdqrs., Newport, Wash.)—
J. E. Ryan, B. S. F., *Supvr.*
A. N. Cochrell, *Asst. Supvr.*
K. A. Klem, *Log. Engr.*
F. M. Cossitt, B. S., *Tech. Asst.*

DISTRICT 2—Rocky Mountain District

Colorado, Wyoming, South Dakota, Nebraska, Michigan, Minnesota, and western Oklahoma (hdqrs., Denver, Colo.).
Allen S. Peck, B. S., Ph. B., *Dist. For.*

Public Relations.
H. D. Cochran, A. B., B. S. F., *Off. Chief.*

Law.
W. J. Ise, *Dist. Law Off.*

Finance and Accounts.
Joel I. Buckner, *Dist. Fiscal Agt.*
V. W. Campbell, *Dep. Fiscal Agt.*

Operation.
C. J. Stahl, *Asst. Dist. For.*
Peter Keplinger, Pd. B., M. S. F., *Tech. Asst.* (*training*).
M. R Kennedy, *Admin Asst.* (*maintenance*).

State Cooperative Fire Protection under Clarke-McNary Law.
Michigan, Minnesota, and Wisconsin (hdqrs., Duluth, Minn.):
Crosby A. Hoar, B. A., M. F., *Insp.*

Forest Management.
M. W. Thompson, B. S., M. F., *Asst. Dist. For.*
John W. Spencer, B. A., M. F., *Admin. Asst.*
Fred R. Johnson, B. S., M. F., *Tech. Asst.* (*planting*).
J. A. Donery, *Log. Engr.*

Range Management.
John H. Hatton, B. S., *Asst. Dist. For.*
Lynn H. Douglas, B. S. A., *Admin. Asst.*

Lands.
Earl W. Tinker, B. S., M. F., *Asst. Dist. For.*
T. M. Moorman, LL. B., *Admin. Asst.*

Engineering.
J. L. Brownlee, C. E., Ch. E., M. E., *Dist. Engr.*
Ress Philips, *Off. Chief* (*minor roads and trails*).
F. E. Washburn (*drafting*).
Riley Cass, jr., *Surv.*
Holland Coleman, *Surv.*
James P. Reddick, *Surv.*
Thomas J. Watkins, *Supt. Road Const.*

National Forests.
Colorado:
Arapaho (hdqrs., Hot Sulphur Springs, Colo.)—
John V. Leighou, B. S. F., *Supvr.*
Cochetopa (hdqrs., Salida, Colo.)—
Chas. B. Mack, *Supvr.*
Eric A. Johnson, B. S. F., *Admin. Asst.*
Colorado (hdqrs., Fort Collins, Colo.)—
Wm. R. Kreutzer, LL. B., *Supvr.*
Arthur L. Nelson, B. S. F., *Admin. Asst.*
Grand Mesa (hdqrs., Grand Junction, Colo.)—
Ray Peck, *Supvr.*
Gunnison (hdqrs., Gunnison, Colo.)—
Theodore Krueger, *Supvr.*
Ray R. Clarke, *Admin. Asst.*
Holy Cross (hdqrs., Glenwood Springs, Colo.)—
Harold L. Borden, B. S. F., *Supvr.*
Victor J. Dayharsh, *Admin. Asst.*

National Forests—Continued.
Colorado—Continued.
Leadville (hdqrs., Leadville, Colo.)—
Lewis R. Rist, *Supvr.*
Allen F. Miller, B. S. F., *Admin. Asst.*
Montezuma (hdqrs., Mancos, Colo.)—
A. F. C. Hoffman, B. S. F., *Supvr.*
Fred Stell, B. S. F., *Admin. Asst.*
Pike (hdqrs., Colorado Springs, Colo.)—
Everard S. Keithley, *Supvr.*
Harry D. Petheram, *Admin. Asst.*
W. H. Schrader, *Nurseryman, Monument Nursery, Monument, Colo.*
Rio Grande (hdqrs., Monte Vista, Colo.)—
Robert E. Clark, Ph. B., M. F., *Supvr.*
Routt (hdqrs., Steamboat Springs, Colo.)—
Philip V. Woodhead, *Supvr.*
Wm. B. Fay, *Admin. Asst.*
San Isabel (hdqrs., Pueblo, Colo.)—
H. E. French, B. S., M. F., *Supvr.*
W. J. Stahl, A. B., M. S. F., *Admin. Asst.*
Paul B. Lister, M. F., *Tech. Asst.*
San Juan (hdqrs., Durango, Colo.)—
Andrew Hutton, B. S. F., *Supvr.*
Wm. P. Apgar, B. S., M. F., *Admin. Asst.*
Uncompahgre (hdqrs., Delta, Colo.)—
S. D. Anderson, B. S., *Supvr.*
J. S. Veeder, *Admin. Asst.*
White River (hdqrs., Glenwood Springs, Colo.)—
————, *Supvr.*
Karl L. Janouch, B. S. A., *Admin. Asst.*
Michigan:
Marquette Purchase Unit (hdqrs., Munising, Mich.)—
Wm. L. Barker, jr., B. S., *For. Off., in charge.*
Michigan (hdqrs., East Tawas, Mich.)—
R. G. Schreck, B. F. S., *Supvr.*
Ralph H. Johnson, *Nurseryman.*
H. C. Turner, B. S., *Nurseryman.*
Minnesota:
Minnesota (hdqrs., Cass Lake, Minn.)—
Howard Hopkins, B. A., M. F., *Supvr.*
Gunnar K. Fenger, B. S. F., *Admin. Asst.*
Superior (hdqrs., Ely, Minn.)—
A. G. Hamel, B. S. F., *Supvr.*
R. U. Harmon, B. S. F., *Admin. Asst.*
J. M. Walley, B. S. F., *Admin. Asst.*
Nebraska:
Nebraska (hdqrs., Halsey, Nebr.)—
Jay Higgins, B. S. F., *Supvr.*

National Forests—Continued.
Oklahoma:
Wichita (hdqrs., Cache, Okla.)—
Harry H. French, *Supvr.*
South Dakota:
Black Hills (hdqrs., Deadwood, S. Dak.)—
Geo. A. Duthie, B. A., M. S. F., *Supvr.*
Fritz J. Poch, B. S. F., *Admin. Asst.*
Harney (hdqrs., Custer, S. Dak.)—
James F. Conner, *Supvr.*
Paul L. Ginter, B. S., *Admin. Asst.*
Wyoming:
Bighorn (hdqrs., Sheridan, Wyo.)—
Fred B. Agee, *Supvr.*
C. L. Van Giesen, B. S., M. F., *Admin. Asst.*
Hayden (hdqrs., Encampment, Wyo.)—
James Blackhall, *Supvr.*
Medicine Bow (hdqrs., Laramie, Wyo.)—
Huber C. Hilton, B. S. F., *Supvr.*
D. E. Clark, B. S., *Admin. Asst.*
Shoshone (hdqrs., Cody, Wyo.)—
J. N. Langworthy, *Supvr.*
Washakie (hdqrs., Lander, Wyo.)—
Wallace J. Pearce, *Supvr.*

DISTRICT 3—Southwestern District

Arizona and New Mexico (hdqrs., Albuquerque, N. Mex.).
Frank C. W. Pooler, *Dist. For.*

Law.
E. S. French, LL. B., M. P. L., *Dist. Law Off.*

Finance and Accounts.
Albert Morris, *Dist. Fiscal Agt.*
P. H. Harley, *Dep. Fiscal Agt.*

Operation.
H. G. Calkins, B. S., *Asst. Dist. For.*
James F. Mullen, *Dist. For. Insp.*
Stanley F. Wilson, A. B., M. F., *Dist. For. Insp.*
Edward P. Ancona, B. S. F., *Sr. Admin. Asst. (maintenance).*
H. D. Burrall, B. S. F., *Supt. of Road Const.*

Forest Management.
Quincy Randles, B. S., M. S. F., *Asst. Dist. For.*
D. M. Lang, *Log. Engr.*
H. Basil Wales, B. F., M. F., *Dist. For. Insp.*
W. H. Long, A. M., Ph. D., *Consult. Path. (Bur. of Pl. Ind.).*

Range Management.
John Kerr, *Asst. Dist. For.*
David A. Shoemaker, *Range Exam.*
Ralph W. Hussey, B. S., *Assoc. Range Exam.*

Grazing Reconnaissance.
W. G. Koogler, *Chief of Party.*
H. W. Naylor, *Sr. For. Ranger.*

Grazing Reconnaissance—Continued.
W. E. Wiltbank, *For. Ranger.*
Earl Albright, *For. Ranger.*
E. Shirley Bliss, B. S., *Jr. Range Exam.*

Range Investigations.
C. K. Cooperrider, B. S., *Range Exam.*
R. F. Copple, B. S., *Jr. Range Exam.*

Lands.
M. M. Cheney, LL. B., *Asst. Dist. For.*
H. D. Burrall, B. S. F., *Jr. For.*
Lee C. Daves, C. E., E. M., *Chief Surv.*

Engineering.
C. A. Long, C. E., *Dist. Engr.*
R. L. Hughes, *Asst. Dist. Engr.* (*roads*).

Public Relations.
John D. Jones, A. B., J. D., *Asst. Dist. For.*

National Forests.
Arizona:
Apache (hdqrs., Springerville, Ariz.)—
K. C. Kartchner, *Supvr.*
J. C. Roak, B. S. F., *Asst. Supvr.*
Coconino (hdqrs., Flagstaff, Ariz.)—
E. G. Miller, A. B., *Supvr.*
Robt. M. Munro, *Asst. Supvr.*
Fred Merkle, *Log. Engr.*
Lloyd A. Wall, B. S., M. S., *Asst. Range Exam.*
Arthur B. Young, E. M., *Supt. of Road Const.*
Robt. F. Rhinehart, *Sr. Lumberman.*
Homer E. German, *Sr. Lumberman.*
Coronado (hdqrs., Tucson, Ariz.)—
Frederic Winn, B. S., *Supvr.*
C. W. McKenzie, *Asst. Supvr.*
Wm. John Anderson, *Asst. Supvr.*
Crook (hdqrs., Safford, Ariz.)—
Rex King, A. B., M. S. F., *Supvr.*
C. E. Moore, *Asst. Supvr.*
R. V. Boyle, jr., *Range Exam.*
Prescott (hdqrs., Prescott, Ariz.)—
F. L. W. Grubb, *Supvr.*
L. J. Putsch, *Asst. Supvr.*
Sitgreaves (hdqrs., Holbrook, Ariz.)—
Paul H. Roberts, B. S. F., *Supvr.*
L. F. Cottam, *Asst. Supvr.*
Robt. C. Salton, B. S., *Asst. For.*
Kimberlin Carlisle, *Chief Lumberman.*
E. L. Hamilton, B. S., *Jr. For.*
Tonto (hdqrs., Phoenix, Ariz.)—
T. T. Swift, Ph. G., M. E., *Supvr.*
J. H. Sizer, *Asst. Supv.*
Tusayan (hdqrs., Williams, Ariz.)—
G. W. Kimball, A. B., M. F., *Supvr.*
William T. Doherty, F. E., *Asst. Supvr.*
R. D. Morris, B. S. F., *Asst. Range Exam.*
Hugo L. Sundling, B. S., *Jr., For.*
New Mexico:
Carson (hdqrs., Taos, N. Mex.)—
C. R. Dwire, *Supvr.*
C. A. Merker, B. S. F., *Asst. Supvr.*

National Forests—Continued.
New Mexico—Continued.
Datil (hdqrs., Magdalena, N. Mex.)—
F. L. Kirby, *Supvr.*
B. A. Hendricks, B. S., *Asst. Supvr.*
Gila (hdqrs., Silver City, N. Mex.)—
James A. Scott, *Supvr.*
L. R. Lessel, B. S. F., *Asst. Supvr.*
Lincoln (hdqrs., Alamogordo, N. Mex.)—
O. F. Arthur, *Supvr.*
Simeon Strickland, *Asst. Supvr.*
Manzano (hdqrs., Albuquerque, N. Mex.)—
John A. Adams, M. E., *Supvr.*
Jacob C. Nave, *Asst. Supvr.*
Santa Fe (hdqrs., Santa Fe, N. Mex.)—
Frank E. Andrews, *Supvr.*
M. F. Pincetl, *Asst. Supvr.*
H. O. Cassidy, B. S., *Asst. Range Exam.*
C. W. Simmons, B. S. F., M. F., *Jr. For.*
C. H. Kissam, B. F., F. E., *Supt. Road Const.*

DISTRICT 4—Intermountain District

Utah, southern Idaho, western Wyoming, Nevada, and northwestern Arizona (hdqrs., Ogden, Utah).
R. H. Rutledge, *Dist. For.*

Finance and Accounts.
Lee Stratton, *Dist. Fiscal Agt.*
A. C. Wycoff, *Dep. Fiscal Agt.*

Operation.
C. N. Woods, *Asst. Dist. For.*
Thomas V. Pearson, *Admin. Asst.*

State Cooperative Fire Protection under Clarke-McNary Law, Idaho.
C. B. Morse, M. S., *Asst. Dist. For.*

Forest Management.
C. B. Morse, M. S., *Asst. Dist. For.*
E. C. Sanford, B. S., *Asst.*
U. S. Schwartz, *Log. Engr.*

Range Management.
Ernest Winkler, *Asst. Dist. For.*
J. O. Stewart, *Insp. of Grazing.*
A. R. Standing, *Assoc. Range Exam.*

Lands.
R. E. Gery, *Asst. Dist. For.*
S. B. Locke, B. S., *Tech. Asst.*

Engineering.
J. P. Martin, C. E., *Dist. Engr.*
W. W. Blakeslee, *Asst.*
H. M. Shank, *Assoc. Civil Engr.* (*maps and surveys*).
J. P. Martin, C. E., *Dist. Engr.* (*roads*).
J. P. Martin, C. E., *Dist Engr.* (*water power*).

Public Relations.
Dana Parkinson, A. B., M. F., *Asst. Dist. For.*

National Forests.
Arizona:
Kaibab (hdqrs., Kanab, Utah)—
Walter G. Mann, *Supvr.*
Idaho:
Boise (hdqrs., Boise, Idaho)—
Guy B. Mains, *Supvr.*
Arthur Potter, *Asst. Supvr.*
Nathan C. Schulze, *Tech. Asst.*
J. W. Stokes, *Tech. Asst.*
Caribou (hdqrs., Montpelier, Idaho)—
F. S. Moore, *Supvr.*
T. Dean Phinney, *Tech. Asst.*
Challis (hdqrs., Challis, Idaho)—
E. A. Renner, *Supvr.*
Idaho (hdqrs., McCall, Idaho)—
S. C. Scribner, *Supvr.*
Ira Latham, *Asst. Supvr.*
J. W. Farrell, *Asst. Supvr.*
Lemhi (hdqrs., Mackay, Idaho)—
Oscar Mink, *Supvr.*
Minidoka (hdqrs., Burley, Idaho)—
S. S. Stewart, *Supvr.*
Payette (hdqrs., Emmett, Idaho)—
W. B. Rice, B. A., M. F., *Supvr.*
Francis Wallis, *Asst. Supvr.*
Clark Miles, *Tech. Asst.*
Edward Ritter, *Tech. Asst.*
Salmon (hdqrs., Salmon, Idaho)—
John N. Kinney, *Supvr.*
D. E. Romano, *Asst. Supvr.*
Hubert B. Knipe, *Exec. Asst.*
Sawtooth (hdqrs., Hailey, Idaho)—
M. S. Benedict, *Supvr.*
Targhee (hdqrs., St. Anthony, Idaho)—
S. W. Stoddard, *Supvr.*
David A. Arrivee, B. S., *Asst. Supvr.*
Weiser (hdqrs., Weiser, Idaho)—
John Raphael, *Supvr.*
Felix C. Koziol, B. S., *Asst. Supvr.*
Nevada:
Humboldt (hdqrs., Elko, Nev.)—
Alexander McQueen, *Supvr.*
Wilford E. Tangren, *Asst. Supvr.*
Nevada (hdqrs., Ely, Nev.)—
Chas. A. Beam, *Supvr.*
Toiyabe (hdqrs., Austin, Nev.)—
J. E. Gurr, *Supvr.*
Utah:
Ashley (hdqrs., Vernal, Utah)—
A. G. Nord, *Supvr.*
Geo. W. Craddock, *Jr. Tech. Asst.*
J. A. Libby, *Tech. Asst.*
Cache (hdqrs., Logan, Utah)—
Carl B. Arentson, *Supvr.*
Dixie (hdqrs., Cedar City, Utah)—
Orange A. Olsen, *Supvr.*
Fishlake (hdqrs., Richfield, Utah)—
C. A. Mattsson, *Supvr.*
Chester J. Olsen, *Asst. Supvr.*
La Sal (hdqrs., Moab, Utah)—
A. C. Folster, *Supvr.*
Manti (hdqrs., Ephraim, Utah)—
J. W. Humphrey, *Supvr.*

National Forests—Continued.
Utah—Continued.
Powell (hdqrs., Panguitch, Utah)—
Wallace M. Riddle, *Supvr.*
Uinta (hdqrs., Provo, Utah)—
Chas. DeMoisy, jr., *Supvr.*
Harley J. Helm, *Asst. Supvr.*
Wasatch (hdqrs., Salt Lake City, Utah)—
E. C. Shepard, B. S., *Supvr.*
Blaine Betenson, *Asst. Supvr.*
Carl A. Gustafson, *Jr. For.*
Wyoming:
Teton (hdqrs., Jackson, Wyo.)—
A. C. McCain, *Supvr.*
Wyoming (hdqrs., Kemmerer, Wyo.)—
C. E. Favre, M. S., *Supvr.*
Milo H. Deming, B. S., *Asst. Supvr.*
Jay B. Hann, *Tech. Asst.*
A. A. Hasel, *Tech. Asst.*

DISTRICT 5—California District

California and southwestern Nevada (hdqrs., San Francisco, Calif.).

Stuart B. Show, A. B., M. F., *Dist. For.*

Law.
H. P. Dechant, A. B., LL. B., *Asst. to Solicitor.*

Finance and Accounts.
A. W. Smith, *Dist. Fiscal Agt.*
Howard E. Marshall, *Dep. Fiscal Agt.*

Operation.
Robert L. Deering, A. B., M. F., *Asst. Dist. For.*
Paul P. Pitchlynn, *Dist. For. Insp.* (*personnel, insp., and improvements*).
E. V. Lackey, *Admin. Asst.*
Jay H. Price, B. S., *Dist. For. Insp.*
Elsa H. Schmieder, *Chief of Maintenance.*
C. E. Jordan, *Dist. For. Insp.*
W. A. Huestis, *Supt. of Road Const.* (*minor roads and trails*).
Frank E. Wooldridge, *Chief Surv.* (*minor roads and trails*).
Don M. Hoffman, *Chief Surv.* (*minor roads and trails*).
Chas. L. Young, *Chief Surv.* (*minor roads and trails*).
W. W. Wooldridge, *Foreman of Road Const.*
F. H. Hafley, *Telephone Engr.*

State Cooperative Fire Protection under Clarke-McNary Law, California and Territory of Hawaii.
Jay H. Price, B. S., *Dist. For. Insp.*

Forest Management.
T. D. Woodbury, B. Ph., M. F., *Asst. Dist. For.*
C. E. Dunston, B. F., *Asst.*
J. R. Berry, *Log. Engr.*
B. O. Hughes, B. S., *Assoc. For.* (*logging*).

Forest Management—Continued.
J. C. Elliott, *Lumberman (timber sales).*
O. M. Evans, *For. Exam. (timber surveys).*

Forest Pathology (in coop. with Bur. of Pl. Ind.).
E. P. Meinecke, Ph. D., *Consult. Path.*
Willis W. Wagener, A. B., M. S., *Asst.*
Ernest Wright, B. S., M. S., *Asst.*

Forest Insect Investigations (Stanford Univ., Calif.).
H. E. Burke, Ph. D., *Ent.*
J. M. Miller, *Ent.*

Range Management.
Jesse W. Nelson, *Asst. Dist. For.*
Fred P. Cronemiller, B. S., *Asst.*

Lands.
L. A. Barrett, *Asst. Dist. For.*
George Miller, *Dist. For. Insp.*
W. H. Friedhoff, E. M., *Dist. For. Insp.*

Engineering.
F. E. Bonner, *Dist. Engr.*
E. W. Kramer, C. E., *Hydro-electrical Engr. (water power).*
S. H. Ketchem, *Assoc. Hydro-electrical Engr. (water power).*
H. A. Sedelmeyer, *Chief Draftsman.*
T. R. Littlefield, *Chief Surv. (maps and surveys).*
B. B. Burnett, *Asst. Dist. Engr. (roads).*
J. H. Lawrence, *Asst. Engr. (bridges).*

Public Relations.
W. I. Hutchinson, A. B., M. F., *Asst. Dist. For.*
Paul J. Fair, *Admin. Off., in charge of exhibits.*

National Forests.
California:
Angeles (hdqrs., Los Angeles, Calif.)—
George H. Cecil, *Supvr.*
Lewis H. Anderson, *Asst. Supvr.*
August J. Mueller, *Asst. Supvr.*
California (hdqrs., Willows, Calif.)—
J. D. Coffman, M. F., *Supvr.*
W. F. Derby, A. B., *Asst. Supvr.*
Cleveland (hdqrs., San Diego, Calif.)—
J. E. Elliot, *Supvr.*
Eldorado (hdqrs., Placerville, Calif.)—
E. F. Smith, *Supvr.*
Russell S. Bacon, B. S., M. S. F., *Tech. Asst.*
Inyo (hdqrs., Bishop, Calif.)—
Roy Boothe, *Supvr.*
Klamath (hdqrs., Yreka, Calif.)—
F. D. Douthitt, *Supvr.*
Perry J. Hill, *Asst. Supvr.*
John S. Edwards, B. S., *Jr. For.*
Lassen (hdqrs., Susanville, Calif.)—
W. G. Durbin, *Supvr.*
Geo. M. Gowen, B. S., *Asst Supvr.*
Marc W. Edmonds, B. S., *Asst. For.*
Cyril B. Robinson, *Jr. Range Exam.*

National Forests—Continued.
California—Continued.
Modoc (hdqrs., Alturas, Calif.)—
George W. Lyons, M. S., *Supvr.*
Robert M. Riley, B. S., *Jr. For.*
Plumas (hdqrs., Quincy, Calif.)—
D. N. Rogers, B. S., M. F., *Supvr.*
Jacob D. Schoeller, B. S., *Asst. Supvr.*
John T. Gray, *Asst. Supvr.*
Robert W. Ayres, Ph. B., M. F., *Assoc. For.*
Ambrose B. Everts, B. S., *Jr. For.*
Paul R. Kevin, B. S., *Jr. For.*
San Bernadino (hdqrs., San Bernardino, Calif.)—
S. A. Nash-Boulden, *Supvr.*
Fred J. Jeken, *Asst. Supvr.*
Clarence A. Morris, *Asst. Supvr.*
Santa Barbara (hdqrs., Santa Barbara, Calif.)—
Wm. V. Mendenhall, *Supvr.*
Frank A. Robinson, *Asst. Supvr.*
Sequoia (hdqrs., Porterville, Calif.)—
E. P. Cunningham, *Supvr.*
T. C. West, *Asst. Supvr.*
Russell W. Beeson, B. A., *Asst. Range Exam.*
Shasta (hdqrs., Mt. Shasta, Calif.)—
Thos. J. Jones, *Supvr.*
Frank Myers, *Asst. Supvr.*
Belknap G. Goldsmith, B. S., M. F., *Log. Engr.*
Earl E. Bachman, B. S., *Jr. For.*
Sierra (hdqrs., Northfork, Calif.)—
M. A. Benedict, B. S., *Supvr.*
Audie K. Wofford, *Asst. Supvr.*
Walter E. Jotter, B. S., *Asst. For.*
Orville P. Burnett, B. S., *Jr. For.*
Stanislaus (hdqrs., Sonora, Calif.)—
J. R. Hall, B. S., M. S., *Supvr.*
Claude K. Barker, *Asst. Supvr.*
John S. Everitt, B. S., M. F., *Asst. For.*
George E. Sargent, B. S., *Jr. For.*
Tahoe (hdqrs., Nevada City, Calif.)—
R. L. P. Bigelow, *Supvr.*
Leland S. Smith, *Asst. Range Exam.*
Millard M. Barnum, B. S., *Asst. For.*
Fred J. Dooley, *Sr. Lumberman.*
Trinity (hdqrs., Weaverville, Calif.)—
Frank Price, *Supvr.*
DeWitt Nelson, B. S., *Asst. Supvr.*
Nevada:
Mono (hdqrs., Minden, Nev.)—
Wm. M. Maule, *Supvr.*

DISTRICT 6—North Pacific District

Washington and Oregon (hdqrs., Portland, Oreg.).
C. M. Granger, B. S., *Dist. For.*

Finance and Accounts.
A. H. Cousins, *Dist. Fiscal Agt.*
H. J. Weil, *Dep. Fiscal Agt.*

Operation.
A. O. Waha, *Asst. Dist. For.*
Shirley Buck, *Admin. Off.*
K. P. Cecil, *Insp. (improvements).*
T. P. Flynn, *Asst. Insp.*
C. M. Allen, *Telephone Engr.*

Fire Control.
F. H. Brundage, Ph. B., M. F., *Asst. Dist. For.*
W. B. Osborne, jr., A. B., M. F., *Insp. (fire suppression).*
T. M. Talbott, *Asst. Insp. (law enforcement).*

Inspection of Oregon and California Railroad Lands and State Fire Cooperation.
E. H. MacDaniels, A. B., M. F., *Insp. (fire coop.).*

Forest Management.
Fred Ames, A. B., M. F., *Asst. Dist. For.*
W. F. Ramsdell, B. S., M. S. F., *Admin. Asst.*
Geo. L. Drake, B. S. F., *Lumberman.*
O. F. Ericson, A. B., M. S. F., *Assoc. Log. Engr.*
G. E. Stevenson, *Chief Lumberman (check scaling).*
Fred A. Matz, *Chief Lumberman (timber surveys).*

Planting and Forest Investigations.
J. F. Kummel, M. A., *For. Exam. (planting).*
E. J. Hanzlik, B. S. F., *For. Exam. (investigation).*

Forest Pathology (in coop. with Bur. of Pl. Ind.).
H. G. Lachmund, A. B., *Assoc. Path.*
J. L. Mielke, B. S. F., *Jr. Path.*
C. N. Partington, B. S. H., *Jr. Path.*

Forest Insect Control.
A. J. Jaenicke, B. S. F., *For. Exam.*

Range Management.
E. N. Kavanagh, *Asst. Dist. For.*
D. C. Ingram, *Assoc. Range Exam. (range inv.).*

Lands.
C. J. Buck, B. A., M. F., *Asst. Dist. For.*
F. W. Cleator, *Asst. Insp. (recreation).*
W. M. H. Woodward, A. M., *Mineral Exam.*
Adolph Nilsson, B. S., *Chief Land Exam.*

Engineering.
Philip H. Dater, A. B., B. S., *Dist. Engr.*
J. Frankland, C. E., *Assoc. Engr. (maps and surveys).*
Victor Flach, *Chief Draftsman.*

Products.
W. H. Gibbons, *For. Exam., in charge.*
Allen H. Hodgson, M. F., *For. Exam.*
H. M. Johnson, B. S., M. S. F., *For. Exam.*
H. R. Spelman, B. S., M. F., *For. Exam.*

Public Relations.
John D. Guthrie, Ph. B., M. F., *Asst. Dist. For.*
Geo. E. Griffith, *Admin. Asst.*
E. M. Stone, *Libr.*

National Forests.
Oregon:
Cascade (hdqrs., Eugene, Oreg.)—
N. F. Macduff, B. S. F., *Supvr.*
R. F. Grefe, B. S. F., *Supt. of Const.*
H. E. Haefner, B. S. A., *Tech. Asst.*
Crater (hdqrs., Medford, Oreg.)—
H. B. Rankin, *Supvr.*
N. C. White, B. E., *Asst. Supvr.*
Lee P. Brown, B. S. F., *Jr. For.*
W. J. Sproat, M. F., *Tech. Asst.*
Deschutes (hdqrs., Bend., Oreg.)—
R. L. Fromme, B. S. A., M. F., *Supvr.*
W. O. Harriman, A. B., *Asst. Supvr.*
W. J. Perry, *Lumberman.*
E. J. Schlatter, B. S. F., *Jr. For.*
Leslie Colvill, B. S. F., *Jr. For.*
C. H. Huntington, B. S. F., *Jr. For.*
Fremont (hdqrs., Lakeview, Oreg.)—
Gilbert D. Brown, *Supvr.*
Lawrence Frizzell, *Asst. Supvr.*
R. W. Putnam, B. S., *Jr. For.*
Malheur (hdqrs., John Day, Oreg.)—
Walt L. Dutton, B. S., *Supvr.*
Carl Ewing, A. B., *Asst. Supvr.*
R. B. Pierpont, *Supt. of Const.*
Mount Hood (hdqrs., Portland, Oreg.)—
Thomas H. Sherrard, A. B., *Supvr.*
R. T. Carter, *Asst. Supvr.*
H. D Foster, A. B., M. F., *Tech. Asst.*
Ochoco (hdqrs., Prineville, Oreg.)—
V. V. Harpham, *Supvr.*
W. A. Donnelly, *Asst. Supvr.*
Santiam (hdqrs., Albany, Oreg.)—
C. C. Hall, *Supvr.*
H. G. White, *Asst. Supvr.*
Siskiyou (hdqrs., Grants Pass, Oreg.)—
J. H. Billingslea, B. S. F., *Supvr.*
A. G. Jackson, A. B., M. S. F, *Tech. Asst.*
M. M. Lewis, *Asst. Supvr.*
Siuslaw (hdqrs., Eugene, Oreg.)—
Ralph S. Shelley, B. S., *Supvr.*
A. R. Wilcox, B. S., *Tech. Asst.*
Umatilla (hdqrs., Pendleton, Oreg.)—
J. F. Irwin, *Supvr.*
F. D. Monroe, B. S., *Jr. For.*
Lester Moncrief, B. S. F., *Asst. Supvr.*
F. D. Monroe, B. S., *Jr. For.*
Umpqua (hdqrs., Roseburg, Oreg.)—
Carl B. Neal, A. B., M. F., *Supvr.*
Donald N. Matthews, B. S. F., M. F.. *Asst Supvr.*
Wallowa (hdqrs., Wallowa, Oreg.)—
Nelson J. Billings, *Supvr.*
D. A. Christianson, B. S. F., *Jr. For.*

National Forests—Continued.
Oregon—Continued.
Whitman (hdqrs., Baker, Oreg.)—
John C. Kuhns, *Supvr.*
F. W. Furst, B. S., *Asst. Supvr.*
I. E. Jones, *Supt. of Const.*
J. L. Peterson, B. S. H., *Assoc. Range Exam.*
Otto G. Koenig, B. S. F., *Jr. For.*
Washington:
Chelan (hdqrs., Okanogan, Wash.)—
P. T. Harris, A. B., M. F., *Supvr.*
G. E. Mitchell, *Asst. Supvr.*
Roy Mitchell, *Supt. of Const.*
Columbia (hdqrs., Portland, Oreg.)—
F. V. Horton, *Supvr.*
R. A. Bottcher, *Supt. of Const.*
J. M. Mann, *Supt. of Const.*
G. A. Bright, B. A., M. F., *Tech. Asst.*
Colville (hdqrs., Republic, Wash.)—
P. A. Thompson, *Supvr.*
Lloyd L. Houghland, *Supt. of Const.*
T. H. Burgess, B. S., *Jr. For.*
Mount Baker (hdqrs., Bellingham, Wash.)—
Lawrence B. Pagter, B. A., M. F., *Supvr.*
Lage Wernstedt, M. E., M. F., *Asst. For.*
D. J. Stoner, B. S. F., *Jr. For.*
Olympic (hdqrs., Olympia, Wash.)—
H. L. Plumb, A. B., M. S. F., *Supvr.*
J. R. Bruckart, *Asst. Supvr.*
Robert S. Maclay, B. S., *Jr. For.*
Paul H. Logan, B. S. F., *Jr. For.*
W. H. Lund, B. S. F., *Jr. For.*
Rainier (hdqrs., Tacoma, Wash.)—
E. J. Fenby, *Supvr.*
J. L. Campbell, *Asst. Supvr.*
E. R. Johnson, *Supt. of Const.*
Otto Lindh, B. S. F., *Jr. For.*
Snoqualmie (hdqrs., Seattle, Wash.)—
W. G. Weigle, M. F., *Supvr.*
Lewis A. Treen, jr., B. S. F., *Asst. Supvr.*
Ira J. Mason, B. S., M. F., *Jr. For.*
Wenatchee (hdqrs., Wenatchee, Wash.)—
A. H. Sylvester, B. S., *Supvr.*
C. J. Conover, B. S., M. S. F., *Asst. Supvr.*
F. G. Renner, B. S. F., *Asst. Range Exam.*

DISTRICT 7—Eastern District

Alabama, Arkansas, Florida, Louisiana, New Hampshire, North Carolina, Pennsylvania, Porto Rico, South Carolina, Tennessee, Virginia, and West Virginia (hdqrs., Washington, D. C.).
Evan W. Kelley, *Dist. For.*

Finance and Accounts.
Louis King, *Dist. Fiscal Agt.*
H. B. Herms, *Dep. Fiscal Agt.*

Operation.
H. O. Stabler, M. F., *Asst. Dist. For.*

Forest Management.
R. M. Evans, B. A., M. F., *Asst. Dist. For.*
L. S. Gross, *Asst. Dist. For. Insp.*
C. L. Graham, *Log. Engr.*

Range Management.
————, *Asst. Dist. For.*

Lands.
————, *Asst. Dist. For.*
W. W. Ashe, M. S., *Sr. Dist. For. Insp.*
Percy J. Paxton, *Dist. For. Insp.*

Engineering.
J. C. Dort, B. S., *Dist. Engr.*
Rezin E. Pidgeon, *Asst. Dist. Engr.*
Geo. W. Root, *Assoc. Engr.*

Public Relations.
James E. Scott, *Asst. Dist. For.*

National Forests.
Alabama:
Alabama (hdqrs., Athens, Tenn.)—
Clinton G. Smith, B. S., M. F., *Supvr.*
Arkansas:
Ouachita (hdqrs., Hot Springs Nat. Park, Ark.)—
R. H. Charlton, *Supvr.*
R. M. Conarro, *Asst. Supvr.*
H. L. Russell, A. B., M. F., *Asst. For.*
A. J. Streinz, B. S., *Asst. For.*
Philip H. Bryan, *Jr. For.*
Mark M. Lehrbas, *Jr. For.*
Wm. F. Park, *Jr. For.*
Ozark (hdqrs., Russellville, Ark.)—
Henry R. Koen, *Supvr.*
Ben F. Vaughn, *Asst. Supvr.*
James S. Long, *Jr. For.*
Florida:
Choctawhatchee (hdqrs., Pensacola, Fla.)—
A. C. Shaw, B. S., *Supvr.*
E. W. Gemmer, *Jr. For.*
Ocala (hdqrs., Pensacola, Fla.)—
Evan W. Hadley, *Asst. For.*
Louisiana:
Kisatchie (hdqrs., Alexandria, La.)—
Charles A. Plymale, *Supvr.*
New Hampshire:
White Mountain (hdqrs., Laconia, N. H.)—
Ira T. Yarnell. B. S., *Supvr.*
H. R. Currier, *Asst. Supvr.*
G. S. Wheeler, B. S., M. F., *Jr. For.*
L. R. Strickenberg, *Chief Land Exam.*
North Carolina:
Nantahala (hdqrs., Franklin. N. C.)—
A. A. Wood, *Supvr.*
John Wasilik, jr., M. F., Ph. B., *Asst. For.*
John B. Byrne, *Jr. For.*

National Forests—Continued.
North Carolina—Continued.
Pisgah (hdqrs., Asheville, N. C.)—
M. A. Mattoon, *Supvr.*
John W. McNair, *Asst. Supvr.*
Lewis R. Smith, *Jr. For.*
Pennsylvania:
Allegheny (hdqrs., Warren, Pa.)—
L. L. Bishop, B. S., *Supvr.*
W. I. Stevens, *Jr. For.*
Arthur A. Riemer, *Chief Land Exam.*
Porto Rico:
Luquillo (hdqrs., Rio Piedras, P. R.)—
Wm. P. Kramer, B. F., *Jr. For.*
South Carolina:
Wambraw Purchase Unit (hdqrs., Georgetown, S. C.)—
H. Norton Cope, *Supvr.*
Sydney N. Stoner, *Chief Land Exam.*
Tennessee:
Cherokee (hdqrs., Athens, Tenn.)—
Clinton G. Smith, *Supvr.*
James Denman, *Chief Land Exam.*
H. E. Dobbins, *Jr. For.*
Fred C. Henneberger, *Jr. For.*
Unaka (hdqrs., Bristol, Tenn.)—
Sam R. Broadbent, *Supvr.*
Alfred R. Kinney, *Chief Land Exam.*
C. E. Beaumont, *Asst. For.*
Virginia:
Natural Bridge (hdqrs., Lynchburg, Va.)—
H. M. Sears, *Supvr.*
David W. Tabbutt, *Jr. For.*
E. V. Roberts, *Jr. For.*
Shenandoah (hdqrs., Harrisonburg, Va.)—
Robt. M. Shields, B. F., *Supvr.*
West Virginia:
Monongahela (hdqrs., Elkins, W. Va.)—
C. L. Perkins, B. S., *Supvr.*
Donald A. Oliver, *Jr. For.*

National Forests—Continued.
West Virginia—Continued.
Monongahela—Continued.
Wm. E. Hedges, *Chief Land Exam.*
E. R. Conrad, *Chief Land Exam.*
Harry True, *Chief Land Exam.*

DISTRICT 8—Alaska District

Alaska (hdqrs., Juneau).
Chas. H. Flory, B. S., *Dist. For.*

Finance and Accounts.
H. L. Redlingshafer, *Dist. Fiscal Agt.*

Operation.
M. L. Merritt, M. S., *Asst. Dist. For.*
Harry Sperling, *Chief of Maintenance.*

Forest Management.
B. F. Heintzleman, M. F., *Asst. Dist. For.*
J. P. Williams, *For. Exam.* (*timber surveys*).

Lands.
M. L. Merritt, M. S., *Asst. Dist. For.*
Wellman Holbrook, *For. Exam.*

Engineering.
M. L. Merritt, M. S., *Asst. Dist. For.* (*roads*).
B. F. Heintzleman, M. F., *Asst. Dist. For.* (*water power*).

National Forests.
Alaska:
Chugach (hdqrs., Cordova, Alaska)—
W. J. McDonald, *Supvr.*
J. A. Thayer, B. S., *Jr. For.*
L. C. Pratt, *Exec. Asst.*
Tongass (hdqrs., Ketchikan, Alaska)—
Robert A. Zeller, B. S., *Supvr.*
J. M. Walley, B. S., *For. Exam.*
C. W. Griffin, *Exec. Asst.*
R. F. Taylor, B. S. F., *Tech. Asst.*
L. W. Blodgett, *Sr. Engr.*
Bernard R. Aikens, *Sr. Engr.*
E. F. Thompson, *Jr. Engr.*

BUREAU OF CHEMISTRY AND SOILS

H. G. Knight, B. A., M. A., Ph. D., *Chief.*
C. A. Browne, B. A., M. A., Ph. D., *Asst. Chief.*
A. G. Rice, *Asst. to Chief.*
S. D. Frissell, A. B., *in charge of Ed. Work.*
C. A. Wolfe, *in charge of Finance and Acct.*
H. A. Donovan, *Chief Clerk and Personnel Off.*
J. W. Stevens, *in charge of Supplies and Equip.*
Minerva B. Beckwith, *Libr.*

CHEMICAL AND TECHNOLOGICAL RESEARCH

C. A. Browne, B. A., M. A., Ph. D., *Chief.*
W. W. Skinner, B. S., M. S., Sc. D., *Asst. Chief.*

CARBOHYDRATE DIVISION

H. S. Paine, B. S., *Prin. Chem., in charge.*

Cane Sugar.
R. T. Balch, A. M., *Sr. Chem.*
M. S. Badollet, M. S., *Assoc. Chem.*
J. C. Keane, A. B., *Asst. Chem.*

Beet Sugar.
J. A. Ambler, Ph. B., Ph. D., *Assoc. Chem.*
M. S. Badollet, M. S., *Asst. Chem.*

Beet Sugar—Continued.
J. C. Keane, A. B., *Asst. Chem.*
V. Birckner, M. S., Ph. D., *Asst. Chem.*

Sirups and Honey.
R. T. Balch, A. M., *Sr. Chem.*
J. A. Ambler, Ph. B., Ph. D., *Assoc. Chem.*
V. Birckner, M. S., Ph. D., *Asst. Chem.*

Starches.
L. E. Dawson, B. S., *Assoc. Chem.*

Sugar Plant Constituents.
D. H. Brauns, Ph. D., *Assoc. Chem.*

Confectionery.
J. Hamilton, *Sci. Aid.*

CHEMICAL ENGINEERING DIVISION

D. J. Price, B. S., M. S., E. M., *Prin. Engr. in charge.*

Dust Explosions.
H. R. Brown, B. S., M. E., *Assoc. Engr.*
P. W. Edwards, B. S., *Assoc. Engr.*
R. M. Baker, *Sr. Draftsman.*
R. G. W. Harder, *Sr. Engr. Aid.*
D. L. Reed, B. S., M. S., *Jr. Engr.*
B. J. Culp, B. S., *Asst. Engr.*

Farm Fires.
H. E. Roethe, B. S., *Assoc. Engr.*
E. J. Hoffman, A. B., Ph. D., *Assoc. Chem.*
E. D. Gordon, B. S., M. S., *Asst. Engr.*

Industrial Relations.
W. A. Noel, B. S., M. E., *Assoc. Engr.*

Development.
J. O. Reed, B. S., *Assoc. Engr.*

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H. T. Herrick, A. B., Ch. E., *Prin. Chem., in charge.*

Agricultural Waste.
D. F. J. Lynch, A. B., A. M., LL. M., *Assoc. Chem.*
M. J. Goss, A. B., LL. B., *Asst. Chem.*
J. J. Stubbs, B. S., *Asst. Sci. Aid.*

Dye Intermediates.
P. H. Groggins, B. S., *Assoc. Chem.*
H. P. Newton, A. B., M. A., *Asst. Chem.*

Industrial Wastes.
C. E. Senseman, B. S., A. M., *Assoc. Chem.*
H. D. Weihe, A. B., *Jr. Chem.*

Biological Stains.
W. C. Holmes, A. B., *Assoc. Chem.*
J. T. Scanlan, B. S., M. S., *Asst. Chem.*

Industrial Fermentations.
O. E. May, A. B., B. S., *Asst. Chem.*
S. M. Weisberg, B. S., M. S., *Jr. Chem.*

Lignin.
M. Phillips, B. S., M. S., Ph. D., *Sr. Chem.*

CROP CHEMISTRY LABORATORY

E. T. Wherry, B. S., Ph. D., *Prin. Chem., in charge.*
Jehiel Davidson, B. S., Ph. D., *Assoc. Chem.*
Ruth G. Capen, A. B., *Jr. Chem.*

FOOD RESEARCH DIVISION

F. C. Blanck, A. B., Ph. D., *Prin. Chem., in charge.*

Fruit and Vegetable Chemistry.
California—Los Angeles:
E. M. Chace, LL. M., *Sr. Chem., in charge.*
W. B. Davis, A. B., M. S., Ph. D., *Assoc. Chem.*
C. G. Church, M. S., *Asst. Chem.*
H. D. Poore, B. S., *Asst. Chem.*
D. G. Sorber, A. B., *Jr. Chem.*
District of Columbia—Washington:
E. K. Nelson, B. S., *Sr. Chem.*

Cereal Chemistry.
J. A. LeClerc, B. S., Ph. D., *Sr. Chem.*
L. H. Bailey, A. B., *Assoc. Chem.*

Food Microscopy.
B. J. Howard, B. S., *Prin. Micros., in charge.*
L. H. James, B. S., *Assoc. Bact.*
V. A. Pease, B. S., M. S., Ph. D., *Assoc. Micros.*
E. Le Fevre, M. D., *Asst. Bact.*
M. B. Church, A. M., Ph. D., *Asst. Mycol.*

Metals in Foods.
G. C. Spencer, B. S., Ph. D., *Assoc. Chem.*
D. F. Krumboltz, B. S., *Jr. Chem.*
L. J. Jenkins, *Asst. Sci. Aid.*

Phytochemistry.
C. E. Sando, B. S., M. S., Ph. D., *Sr. Chem.*

INSECTICIDE DIVISION

R. C. Roark, B. A., M. A., Ph. D., *Prin. Chem., acting in charge.*
F. B. La Forge, B. S., M. A., Ph. D., *Assoc. Chem.*
R. H. Carter, B. A., M. A., *Assoc. Chem.*
O. A. Nelson, M. S., *Assoc. Chem.*
C. R. Smith, B. S., *Assoc. Chem.*
H. D. Young, B. S., *Asst. Chem.*
J. W. Barnes, M. S., *Asst. Chem.*
W. A. Gersdorff, M. S., *Asst. Chem.*
L. E. Smith, B. S., M. S., *Asst. Chem.*
FIELD HEADQUARTERS.
Washington—Yakima:
Cecil R. Gross, *Assoc. Chem.*

OIL, FAT, AND WAX LABORATORY

G. S. Jamieson, Ph. B., Ph. D., *Sr. Chem., in charge.*
W. F. Baughman, B. S., *Assoc. Chem.*
R. S. McKinney, B. S., M. S., *Asst. Chem.*
S. I. Gertler, *Jr. Chem.*

PROTEIN AND NUTRITION DIVISION

D. B. Jones, A. B., Ph. D., *Prin. Chem. in charge.*
F. A. Csonka, B. Ch. E., Ph. D., *Assoc. Chem.*
E. M. Nelson, B. S., Ph. D., *Assoc. Chem.*
J. G. Wangler, M. S., *Jr. Chem.*

R, Wilson, B. S., M. S., *Jr. Chem.*
C. E. F. Gersdorff, *Asst. Sci. Aid.*
J. P. Divine, *Sr. Sci. Aid.*

INDUSTRIAL FARM PRODUCTS DIVISION

F. P. Veitch, B. S., M. S., Sc. D., *Prin Chem., in charge.*

Farm Fabrics.
H. P. Holman, A. B., *Sr. Chem.*
T. D. Jarrell, M. S., *Asst. Chem.*

Leather and Tanning Materials.
R. W. Frey, B. S., *Assoc. Chem.*
I. D. Clarke, A. B., *Asst. Chem.*
L. R. Leinbach, B. S., *Jr. Chem.*
W. D. Edington, A. B., *Jr. Chem.*
R. M. du Bruyne, *Assoc. Hide Spec.*
P. C. Brigham, *Asst. Hide Spec.*

Naval Stores.
H. P. Holman, A. B., *Sr. Chem.*
G. P. Shingler, B. S., *Assoc. Chem.*
W. C. Smith, A. B., M. S., *Jr. Chem.*

Paper.
T. D. Jarrell, M. S., *Asst. Chem.*

SOIL INVESTIGATIONS

A. G. McCall, B. S., Ph. D., *Chief.*

SOIL CHEMISTRY AND PHYSICS

H. E. Byers, A. B., B. S., M. S., *Prin. Chem. in charge.*

Physical Soil Characteristics.
L. B. Olmstead, B. S., A. M., *Assoc. Phys.*
H. E. Middleton, M. S., Ph. D., *Asst. Phys.*

Mechanical Soil Analysis.
V. J. Jacquot, jr., *Under Sci. Helper.*
J. M. McCoy, *Under Sci. Helper.*

Research in Soil Chemistry.
Philip L. Gile, A. B., *Sr. Chem. in charge.*
M. S. Anderson, A. B., M. S., Ph. D., *Assoc. Chem.*
Irving A. Denison, M. S., *Asst. Chem.*
Robert S. Holmes, A. B., *Asst. Chem.*
W. O. Robinson, M. S., *Assoc. Chem.*
J. G. Smith, M. S., *Asst. Chem.*

Soil Minera'ogy and Petrography.
W. H. Fry, A. B., *Assoc. Soil Petrographer.*

Soil Analysis.
Glen Edgington, B. S., *Asst. Chem.*
G. J. Hough, B. S., *Asst. Chem.*

SOIL SURVEY

Curtis F. Marbut, Ph. D., LL. D., *Prin. Soil Sci., in charge.*
George W. Baumann, *Exec. Asst.*
J. W. McKericher, *Chief Draftsman.*
Mark Baldwin, B. S., *Insp., Dist. 1.*
W. E. Hearn, B. S., *Insp., Dist. 2.*
T. D. Rice, Ph. B., *Insp., Dist. 3.*
H. H. Bennett, B. S., *Insp., Dist. 4.*
M. H. Lapham, B. S., *Insp., Dist. 5.*
J. E. Lapham, *Assoc. Soil Technol.*
W. J. Geib, *Assoc. Soil Sci.*
C. C. Bassett, *Assoc. Cartographer.*
E. M. Eastword, *Assoc. Cartographer.*
W. T. Carter, jr., B. S., *Assoc. Soil Sci.*
A. T. Strahorn, B. S., *Assoc. Soil Sci.*
A. T. Sweet, B. S., *Assoc. Soil Sci.*
A. C. Anderson, B. S., *Asst. Soil Surv.*
M. W. Beck, B. S., *Asst. Soil Surv.*
R. T. A. Burke, *Asst. Soil Surv.*
E. J. Carpenter, B. S., *Asst. Soil Surv.*
E. B. Deeter, B. S., *Asst. Soil Surv.*
E. D. Fowler, B. S., *Asst. Soil Surv.*
F. A. Hayes, B. S., A. M., *Asst. Soil Surv.*
B. H. Hendrickson, B. S., *Asst. Soil Surv.*
R. C. Jurney, A. B., *Asst. Soil Surv.*
J. A. Kerr, A. B., B. S., *Asst. Soil Surv.*
E. W. Knobel, B. S., *Asst. Soil Surv.*
W. J. Latimer, B. S., *Asst. Soil Surv.*
C. Lounsbury, B. S., *Asst. Soil Surv.*
S. O. Perkins, B. S., *Asst. Soil Surv.*
S. W. Phillips, M. S., *Asst. Soil Surv.*
A. E. Taylor, Ph. B., *Asst. Soil Surv.*
W. E. Tharp, *Asst. Soil Surv.*
W. I. Watkins, B. S., *Asst. Soil Surv.*
R. Wildermuth, B. S., *Asst. Soil Surv.*
E. H. Bailey, M. S., *Jr. Soil Surv.*
R. E. Devereux, A. B., *Jr. Soil Surv.*
M. J. Edwards, *Jr. Soil Surv.*
T. W. Glassey, *Jr. Soil Surv.*
A. W. Goke, B. S., *Jr. Soil Surv.*
A. L. Gray, B. S., *Jr. Soil Surv.*
W. G. Harper, B. S., *Jr. Soil Surv.*
M. H. Layton, B. S., *Jr. Soil Surv.*
W. D. Lee, B. S., *Jr. Soil Surv.*
F. R. Lesh, *Jr. Soil Surv.*
A. H. Hasty, *Jr. Soil Surv.*
J. W. Moon, B. S., *Jr. Soil Surv.*
W. J. Moran, B. S., *Jr. Soil Surv.*
C. S. Simmons, *Jr. Soil Surv.*
H. M. Smith, B. S., *Jr. Soil Surv.*
James Thorp, B. S., *Jr. Soil Surv.*
B. H. Williams, B. S., *Jr. Soil Surv.*
F. O. Youngs, B. S., *Jr. Soil Surv.*
E. G. Fitzpatrick, *Jr. Soil Surv.*
Z. C. Foster, B. S., *Jr. Soil Surv.*
E. N. Poulson, *Jr. Soil Surv.*
Ray C. Roberts, B. S., *Jr. Soil Surv.*
G. A. Swenson, *Jr. Soil Surv.*

Peat Investigations.
Alfred P. Dachnowski Stokes, A. M., Ph. D., *Physiol.*

SOIL MICROBIOLOGY

Charles Thom, A. B., A. M., Ph. D., *Prin. Mycol., in charge.*

Soil Bacteriology Investigations.
Nathan R. Smith, B. S., *Sr. Bact.*
H. Humfeld, B. S., Ph. D., *Asst. Bact.*
Daniel Ready, *Sci. Aid.*

Legume Bacteria.
Lewis T. Leonard, B. S., M. A., *Assoc. Physiol.*
Franklin W. Marsh, B. S., *Jr. Bact.*
Samuel H. Newcomer, *Under Sci. Helper.*

Soil Fertility

Oswald Schreiner, M. S., Ph. D., *Prin. Biochem., in charge.*

Soil and Fertilizer Investigations.
Bailey E. Brown, M. S., *Sr. Biochem.*
Joshua J. Skinner, M. S., Ph. D., *Sr. Biochem.*
Lewis A. Hurst, B. S., *Biochem.*
G. P. Walton, M. S., *Assoc. Chem.*
C. C. Fletcher, M. D., *Assoc. Chem.*
R. F. Gardiner, M. S., *Asst. Chem.*
J. B. Martin, A. B., M. S., *Asst. Chem.*

Biochemical Investigations of Soils.
Edmund C. Shorey, A. M., D. Sc., *Sr. Biochem.*
Paul R. Dawson, M. A., *Asst. Biochem.*

Biochemical Investigations of Fertilizers.
Ralph B. Deemer, B. S., *Asst. Biochem.*
Wilbur R. Leighty, M. S., *Asst. Biochem.*

Biochemical Investigations of Crop Plants.
James E. Adams, A. B., M. S., *Coop. Agt.*

Soil-Reaction Studies.
Edward F. Snyder, B. S., *Asst. Biochem.*

Greenhouse Work.
Fred R. Reid, *Asst. Biochem.*

FERTILIZER AND FIXED NITROGEN INVESTIGATIONS

F. G. Cottrell, B. S., Ph. D., *Chief.*
O. L. Helsley, *Exec. Asst.*
Mildred S. Sherman,* M. S., *Jr. Chem.*

Mechanical Engineering Investigations.
W. L. Edwards, C. E., *Assoc. Engr.*
J. R. Dilley, M. E., *Assoc. Mech. Engr.*
J. F. Mullins, *Chief Engr. Aid.*
L. Testa, *Glassblower.*
J. Reuter, *Prin. Instrument Maker.*
Constance Sherry,* *Asst. Draftsman.*

Biochemical and Organic Nitrogen Investigations.
F. E. Allison, B. S., M. S., Ph. D., *Sr. Chem.*
F. M. Schertz, M. A., Ph. D., *Assoc. Biochem.*
C. D. Garby, B. S., Ph. D., *Assoc. Chem.*
C. A. Ludwig, B. S. A., Ph. D., *Assoc. Pl. Physiol.*
L. A. Pinck, M. S., *Asst. Chem.*

Mechanism of Catalysis Investigations.
A. F. Benton, A. B., Ph. D., *Prin. Chem*
P. H. Emmett, B. S, Ph. D., *Assoc. Chem.*
W. E. Kuentzel, M. S., *Assoc. Chem.*
J. F. Shultz, B. S., *Asst. Chem.*
E. J. Jones, B. S, Ch. E., Ph. D., *Asst. Chem.*
Katherine S. Love, A. B., *Jr. Chem.*
S. Brunauer, A. B., *Jr. Chem.*

Concentrated Fertilizer Investigations.
W. H. Ross, M. S., Ph. D., *Sr. Chem.*
A. R. Merz, M. S., Ph. D., *Assoc. Chem.*
H. Bryan, *Assoc. Mech. Engr.*
C. W. Whittaker, A. B., M. S., Ph. D., *Asst. Chem.*
A. L. Mehring, A. B., *Asst. Chem.*
H. E. Patten, A. B., A. M., Ph. D., *Asst. Chem.*
J. R. Adams, B. S., *Asst. Chem.*
F. O. Lunstrom, A. B., M. S., *Asst Chem.*

Phosphate Investigations.
K. D. Jacobs, B. S., M. S., *Assoc. Chem.*
D. S. Reynolds, B. S., *Asst. Chem.*
W. L. Hill, B. S., *Asst. Chem.*

Transformation of Nitrogen Compounds Investigations.
R. O. E. Davis, Ph. B., Ph. D., *Sr. Physiol. Chem.*
H. J. Krase, M. S., *Sr. Chem. Engr.*
H. C. Hetherington, A. M., *Assoc. Chem.*
J. Y. Yee, M. S., *Asst. Chem.*
H. G. Clark, B. S., *Asst. Chem. Engr.*
W. Scholl, Ch. E., *Asst. Chem.*
C. A. Black, M. S., *Jr. Chem. Engr.*
V. L. Gaddy, B. S., *Jr. Chem.*

Chemical Engineering Investigations.
P. E. Howard, B. S., *Sr. Chem.*
J. G. Thompson, B. S., Ph. D., *Assoc. Chem.*
C. M. Sullivan, B. S., *Asst. Chem. Engr.*

Gas Constants and Chemical Analysis Investigations.
E. P. Bartlett, A. B., M. A., Ph. D., *Sr. Chem.*
M. Leatherman, B. A., Ph. D., *Asst. Chem.*
Mary K. Murray,* B. S., *Jr. Chem.*
C. W. Gelhaus, *Jr. Chem.*
T. H. Tremearne, *Asst. Sci. Aid.*

Potash Investigations.
J. W. Turrentine, M. S., Ph. D., *Sr. Chem.*
E. J. Fox, A. B., M. S., *Asst. Chem.*

Physical Investigations.
C. H. Kunsman, B. S., M. S., Ph. D., *Sr. Phys.*
P. H. Royster, M. A., *Assoc. Chem. Engr.*
A. K. Brewer, M. S., Ph. D., *Assoc. Phys.*
W. E. Deming, M. S., Ph. D., *Assoc. Phys.*
Edward S. Lamar, A. B., *Jr. Phys.*
R. A. Nelson, *Asst. Sci. Aid.*

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J. E. Graf, A. B., *Asst. Chief.*

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A. J. Leister, *Fiscal Off.*
J. E. Andrews, *Aud.*
H. T. Sinclair, *Chief Acct.*
S. B. Walker, *Purchasing Off.*
M. W. Ely, *Personnel Clerk.*
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W. N. Dovener, *Chief Sci. Illustr.*

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Mabel Colcord, A. B., B. L. S., *Assoc. Libr., in charge.*
Ina L. Hawes, B. S., *Jr. Libr.*
Angelina Carabelli, *Libr. Asst.*

DECIDUOUS-FRUIT INSECTS

A. L. Quaintance, M. S., D. Sc., *Assoc. Chief of Bureau, in charge.*
Abby Holdridge, *Jr. Sci. Aid.*

Orchard Insecticides.
F. L. Campbell, M. S., D. Sc., *Assoc. Ent.*
J. W. Bulger, M. A., Ph. D., *Assoc. Ent.*
H. H. Shepard, M. S., *Asst. Ent.*
R. S. Filmer, B. S., *Jr. Ent.*
Carlo Zeimet, *Asst. Bibl. Ent.*
FIELD LABORATORY.
Maryland—Sligo (post office, Silver Spring):
N. E. McIndoo, A. M., Ph. D., *Sr. Ent.*

Apple Insects.
P. W. Mason, M. S., Ph. D., *Assoc. Ent. (aphid studies).*
FIELD LABORATORIES.
Arkansas—Bentonville:
A. J. Ackerman, B. S., *Ent., in charge.*
H. H. Schwardt, B. S., *Jr. Ent.*
Indiana—Vincennes:
B. A. Porter, B. S., Ph. D., *Sr. Ent., in charge.*
R. F. Sazama, B. S., *Jr. Ent.*
Kansas—Wichita:
Paul M. Gilmer, A. B., Ph. D., *Assoc. Ent., in charge.*
Howard Baker, B. S., *Jr. Ent.*

Apple Insects—Continued.
FIELD LABORATORIES—Continued.
Maryland—Sligo (post office, Silver Spring):
E. H. Siegler, B. S., *Sr. Ent.*
Luther Brown, B. S., *Asst. Ent.*
New Jersey—Moorestown:
L. C. McAlister, jr., B. S., *Jr. Ent.*
Washington—Yakima:
E. J. Newcomer, A. B., *Sr. Ent., in charge.*
M. A. Yothers, M. S., *Assoc. Ent.*

Grape Insects.
FIELD LABORATORY.
Ohio—Sandusky:
G. A. Runner, *Assoc. Ent., in charge.*

Nut Insects.
FIELD LABORATORIES.
Georgia—Albany:
G. F. Moznette, B. S., *Assoc. Ent., in charge.*
C. H. Martin, M. A., *Asst. Ent.*
Texas—Brownwood (branch of Albany, Ga., lab.):
H. S. Adair, B. S., *Jr. Ent.*
C. C. Pinkney, B. S., *Jr. Ent.*
West Virginia—French Creek:
F. E. Brooks, *Assoc. Ent., in charge.*

Peach Insects.
FIELD LABORATORIES.
Georgia—Fort Valley:
O. I. Snapp, B. S., *Ent., in charge.*
H. S. Swingle, M. S., *Asst. Ent.*
New Jersey—Moorestown:
Alvah Peterson, B. S., M. A., Ph. D., *Sr. Ent., in charge of peach moth inv.*
G. J. Haeussler, B. S., *Jr. Ent.*
J. W. Lipp, M. S., *Asst. Ent.*

Blueberry Maggot.
FIELD LABORATORY.
Maine—Cherryfield:
F. H. Lathrop, B. S., Ph. D., *Sr. Ent., in charge.*
C. B. Nickels, B. S., M. S., *Asst. Ent.*

Japanese and Asiatic Beetles (hdqrs., Moorestown, N. J.).
FIELD LABORATORIES.
India—Shillong (branch of Yokohama, Japan, lab.):
L. B. Parker, B. S., *Jr. Ent.*
Japan—Yokohama:
Curtis P. Clausen, M. S., *Sr. Ent., in charge.*
T. R. Gardner, B. S., *Assoc. Ent.*
New Jersey—Moorestown (hdqrs.):
Loren B. Smith, B. S., *Prin. Ent., in charge.*
J. L. King, M. S., *Sr. Ent.*

Japanese and Asiatic Beetles—Continued.
FIELD LABORATORIES—Continued.
New Jersey—Moorestown (hdqrs.)—Continued.
W. E. Fleming, B. S., Ph. D., *Assoc. Ent.*
Henry Fox, B. S., Ph. D., *Assoc. Ent.*
B. R. Leach, B. S., *Assoc. Ent.*
E. R. Van Leeuwen, B. S., *Assoc. Ent.*
G. E. Spencer, M. S., *Asst. Ent.*
F. W. Metzger, B. S., *Asst. Ent.*
J. K. Holloway, B. S., *Jr. Ent.*
Robert W. Burrell, B. S., *Jr. Ent.*
F. E. Baker, B. S., *Jr. Ent.*
H. W. Allen, Ph. D., *Agt.*
E. A. Richmond, B. S., M. A., *Agt.*
R. L. Coffin, *Agt.*
R. J. Sim, *Agt.*
P. A. van der Meulen, B. S., Ph. D., *Agt.*
R. Wagner, *Agt.*
A. R. Whitcraft, *Agt.*
C. H. Ballou, *Agt.*
F. E. Merhoff, B. S., M. E., *Agt.*
H. R. Reidenbaker, *Agt.*
M. M. Haines, *Agt.*
D. H. Grant, M. S., *Agt.*
New York—Westbury (Asiatic beetle):
H. C. Hallock, LL. B., M. S., *Assoc. Ent., in charge.*

Plant Disinfection Investigations.
FIELD LABORATORY.
New Jersey—Moorestown:
W. E. Fleming, B. S., Ph. D., *Assoc. Ent., in charge.*
M. R. Osburn, M. S, *Asst. Ent.*
M. C. Swingle, B. S., *Asst. Ent.*

CEREAL AND FORAGE INSECTS

W. H. Larrimer, M. S., Ph. D., *Prin. Ent., in charge.*
W. R. Walton, *Sr. Ent.*
J. S. Wade, *Assoc. Ent.*
Esther H. Hart, A. B., *Prin. Sci. Illustr.*
Nettie S. Klopfer*, *Under Sci. Helper.*

General Cereal and Forage Insects.
FIELD LABORATORIES.
Arizona—Tempe (clover and alfalfa seed chalcis, corn earworm, alfalfa caterpillar, grasshoppers, and plant-lice):
V. L. Wildermuth, B. S., *Ent., in charge.*
E. E. Russell, *Asst. Ent.*
J. C. Frankenfeld, M. S., *Asst. Ent.*
E. G. Davis, B. S., *Jr. Ent.*
Francis M. Jones, *Under Sci. Helper.*
California—Sacramento (grasshoppers, Hessian fly, wireworms, and range craneflies):
R. A. Blanchard, A. B., *Assoc. Ent., in charge.*
C. C. Wilson, B. S., *Jr. Ent.*

General Cereal and Forage Insects—Contd.
FIELD LABORATORIES—Continued.
Indiana—West Lafayette (Hessian fly, sod webworms, lesser clover leaf weevil, grasshoppers, and chinch bug):
C. M. Packard, M. S., *Sr. Ent., in charge.*
H. R. Painter, M. S., *Asst. Ent.*
W. B. Noble, B. S., *Asst. Ent.*
Curtis Benton, M. S., *Jr. Ent.*
Iowa—Sioux City (pale western cutworm, chinch bug, Hessian fly, and wheat stem sawfly):
C. N. Ainslie, M. A., *Asst. Ent., in charge.*
Kansas—Wichita (Hessian fly, chinch bug, green bug, white grubs, and false wireworms):
J. R. Horton, B. S., *Ent., in charge.*
E. T. Jones, A. M., *Asst. Ent.*
H. S. Hollingsworth, B. S., *Jr. Ent.*
H. H. Walkden, B. S., *Jr. Ent.*
Missouri—Webster Groves (Hessian fly, billbugs, wheat jointworm, strawworms, and chinch bug):
A. F. Satterthwait, *Assoc. Ent., in charge.*
R. C. Lange, *Asst. Sci. Aid.*
Montana—Billings (grasshoppers and crickets):
Stewart Lockwood, A. B., *Assoc. Ent., in charge.*
R. L. Shotwell, A. B., *Asst. Ent.*
Oregon—Forest Grove (clover root borer, wireworms, Hessian fly, wheat midge, plant-lice, and grasshoppers):
L. P. Rockwood, B. S., *Assoc. Ent., in charge.*
T. R. Chamberlin, B. S., *Assoc. Ent.*
M. M. Reeher, A. B., *Asst. Ent.*
Sadie E. Keen, A. B., *Asst. Ent.*
Pennsylvania—Carlisle (Hessian fly and its parasites):
C. C. Hill, B. S., *Assoc. Ent., in charge.*
E. D. Eaton, B. S., *Jr. Ent.*
Texas:
Beaumont (branch of New Orleans, La., lab.) (sugar-cane moth borer)—
F. W. Boyd, B. S., *Asst. Ent.*
San Antonio (sorghum midge, grasshoppers, green bug, and southwestern corn borer)—
E. V. Walter, B. S., *Assoc. Ent., in charge.*
Utah—Salt Lake City (alfalfa weevil and its parasites):
G. I. Reeves, A. B., *Sr. Ent., in charge.*
I. M. Hawley, Ph. D., *Sr. Ent.*
J. C. Hamlin, M. S., *Assoc. Ent.*
S. J. Snow, A. B., *Asst. Ent.*
F. H. Harries, M. A., *Jr. Ent.*

General Cereal and Forage Insects—Contd.
FIELD LABORATORIES—Continued.
Virginia:
Charlottesville (wheat jointworm, corn earworm, and larger cornstalk borer)—
W. J. Phillips, Ph. D., *Sr. Ent., in charge.*
L. C. Woodruff, A. B., *Jr. Ent.*
John C. Shiver, B. S., *Jr. Ent.*
Richmond (branch of Charlottesville, Va., lab.)—
G. W. Barber, M. S., D. Sc., *Asst. Ent.*

Sugar Cane, Corn, and Rice Insects.
FIELD LABORATORIES.
Louisiana:
Crowley (under direction of Sr. Ent. in charge of New Orleans, La., lab.) (rice insects)—
J. W. Ingram, B. S., *Asst. Ent.*
New Orleans —
T. E. Holloway, B. S., *Sr. Ent., in charge.*
W. A. Douglas, B. S., *Jr. Ent.*
W. E. Haley, *Prin. Sci. Aid.*

European Corn Borer.
FIELD LABORATORIES.
France—Hyères, Var (parasites of corn borer):
H. L. Parker, B. S., D. Sc., *Ent., in charge.*
A. M. Vance, B. S., *Asst. Ent.*
H. D. Smith, B. S., *Asst. Ent.*
Japan—Yokohama:
W. B. Cartwright, B. S., *Ent.*
Massachusetts—Arlington:
D. J. Caffrey, B. S., *Sr. Ent., in charge of research.*
D. W. Jones, B. S., *Ent.*
K. W. Babcock, B. S., *Assoc. Ent.*
C. H. Batchelder, M. S., Ph. D., *Assoc. Ent.*
B. E. Hodgson, B. S., *Assoc. Ent.*
S. M. Dohanian, *Assoc. Ent.*
W. G. Bradley, B. S., *Asst. Ent.*
R. A. Biron, B. S., *Jr. Ent.*
C. A. Clark, B. S., *Jr. Ent.*
R. C. Ellis, *Jr. Ent.*
D. D. Questel, B. S., *Jr. Ent.*
F. S. Vidler, *Sr. Mech.*
Michigan—Monroe:
Philip Luginbill, A. M., Ph. D., *Assoc. Ent., in charge.*
F. L. Simanton, A. M., *Assoc. Ent.*
W. A. Baker, B. S., *Assoc. Ent.*
A. I. Balzer, B. S., *Jr. Ent.*
F. F. Dicke, B. S., *Jr. Ent.*
L. G. Jones, B. S., *Jr. Ent.*
New York—Silver Creek:
L. B. Scott, B. S., *Asst. Ent., in charge.*
Ohio:
Sandusky—
L. H. Patch, B. S., *Asst. Ent., in charge.*

European Corn Borer—Continued.
FIELD LABORATORIES—Continued.
Ohio—Continued.
Sandusky—Continued.
F. M. Wadley, M. S., Ph. D., *Asst. Ent.*
C. A. Crooks, B. S., *Jr. Ent.*
T. V. Henneberry, B. S., *Jr. Ent.*
Toledo—
J. C. Silver, B. S., *Asst. Ent., in charge.*
Morris Schlosberg, M. S., *Jr. Ent.*

COTTON INSECTS

(Hdqrs., Tallulah, La.)

B. R. Coad, *Sr. Ent., in charge.*
FIELD LABORATORIES.
Arizona—Tucson:
T. P. Cassidy, B. S., *Assoc. Ent., in charge.*
G. L. Smith, B. S., *Asst. Ent.*
A. J. Chapman, B. S., *Jr. Ent.*
H. C. Young, B. S., *Jr. Ent.*
W. A. Stevenson, B. S., *Jr. Ent.*
William Hackett, *For. Ranger.*
Louisiana—Tallulah (hdqrs.):
B. R. Coad, *Sr. Ent., in charge.*
J. W. Folsom, Sc. B., Sc. D., *Sr. Ent.*
E. W. Dunnam, B. S., *Assoc. Ent.*
F. H. Tucker, *Sr. Chem.*
G. A. Maloney, *Asst. Ent.*
W. S. Cook, M. A., *Asst. Sci.* (*pl. morphology*).
M. T. Young, B. S., *Assoc. Ent.*
R. C. Gaines, B. S., *Assoc. Ent.*
R. W. Moreland, B. S., *Asst. Ent.*
K. P. Ewing, B. S., *Asst. Ent.*
V. V. Williams, B. S., *Asst. Ent.*
J. C. Pearson, B. S., *Jr. Chem.*
P. A. Glick, A. B., M. S., *Asst. Pl. Quar. Insp.*
G. L. Garrison, *Sr. Sci. Aid.*
South Carolina—Florence:
F. F. Bondy, B. S., *Asst. Ent.*
Texas:
Brownsville—
T. C. Barber, B. S., *Asst. Ent., in charge.*
El Paso—
F. A. Fenton, M. A., Ph. D., *Sr. Ent.*

FOREST INSECTS

F. C. Craighead, B. A., M. S., Ph. D., *Prin. Ent., in charge.*

Western Bark Beetles.
FIELD LABORATORIES.
California—Palo Alto:
J. M. Miller, B. S., *Sr. Ent., in charge.*
H. E. Burke, M. S., Ph. D., *Sr. Ent.*
F. P. Keen, B. S., *Assoc. Ent.*
J. E. Patterson, *Asst. Ent.*
H. L. Person, M. S., *Asst. Ent.*
Albert Wagner, *Sr. Sci. Aid.*

Western Bark Beetles—Continued.
FIELD LABORATORIES—Continued.
Idaho—Coeur d'Alene:
J. C. Evenden, B. S., *Ent., in charge.*
A. L. Gibson, B. S., *Asst. Ent.*
H. J. Rust, *Sr. Sci. Aid.*

Forest-Tree Insects.
FIELD LABORATORIES.
Massachusetts—Amherst:
H. J. MacAloney, M. F., B. S., *Asst. Ent., in charge.*
Michigan—Ann Arbor:
S. A. Graham, B. S., M. F., Ph. D., *Agt., in charge.*
L. G. Baumhofer, B. S., *Jr. Ent.*
North Carolina—Asheville:
J. A. Beal, B. S., *Asst. Ent., in charge.*
Virginia—East Falls Church:
R. A. St. George, M. S., *Assoc. Ent., in charge.*

Forest-Product Insects.
T. E. Snyder, B. A., M. F., Ph. D., *Sr. Ent.*

Shade-Tree Insects.
William Middleton, B. A., *Assoc. Ent.*

Gipsy Moth and Brown-Tail Moth.
FIELD LABORATORY.
Massachusetts—Melrose Highlands:
C. W. Collins, M. S., *Sr. Ent.*
T. H. Jones, B. S., *Sr. Ent.*
C. F. W. Muesebeck, B. S., *Sr. Ent.*
R. T. Webber, *Assoc. Ent.*
C. E. Hood, B. S., *Assoc. Ent.*
M. T. Smulyan, B. S., Ph. D., *Asst. Ent.*
J. V. Schaffner, jr., *Asst. Ent.*
D. F. Barnes, B. S., *Asst. Ent.*
P. B. Dowden, B. S., *Asst. Ent.*
W. F. Sellers, B. S., *Asst. Ent.*
S. F. Potts, M. S., *Asst. Ent.*
R. C. Brown, B. S., *Asst, Ent.*
D. L. Parker, B. S., *Jr. Ent.*
A. B. Proper, M. S., *Jr. Ent.*
C. M. Symonds, *Agt.*
R. Wooldridge, *Prin. Sci. Aid.*
I. T. Guild, *Sr. Sci. Aid.*
J. E. R. Holbrook, *Sr. Sci. Aid.*
J. A. Millar, *Sr. Sci. Aid.*
C. L. Griswold, *Asst. Sci. Aid.*

TRUCK-CROP INSECTS

J. E. Graf, A. B., *Prin. Ent., in charge.*
W. H. White, B. S., *Assoc. Ent.*
Mary F. Benson,* *Sci. Illustr.*

Taxonomy of Truck-Crop Insects.
F. H. Chittenden, Sc. D., *Sr. Ent.*
Doris H. Blake,* A. M., *Asst. Ent.*

Miscellaneous Truck-Crop Insects.
FIELD LABORATORIES.
California:
Garden Grove (branch of Alhambra, Calif., lab.)—
J. C. Elmore, B. S., *Jr. Ent.*
A. C. Davis, B. S., *Agt.*

Miscellaneous Truck-Crop Insects—Contd.
FIELD LABORATORIES—Continued.
California—Continued.
San Jose (branch of Alhambra, Calif., lab.)—
R. W. Burgess, B. S., *Agt.*
Louisiana—Baton Rouge:
C. E. Smith, M. S., *Assoc. Ent., in charge.*
Norman Allen, M. S., *Jr. Ent.*
Mississippi—Gulfport:
M. M. High, B. S., *Assoc. Ent., in charge.*
North Carolina—Chadbourn:
W. A. Thomas, B. S., *Asst. Ent., in charge.*
W. J. Reid, jr., B. S., *Jr. Ent.*
Pennsylvania—Philadelphia:
D. E. Fink, M. S., Ph. D., *Assoc. Ent., in charge.*

Sugar-Beet Insects.
FIELD LABORATORIES.
California—Berkeley (branch of Twin Falls, Idaho, lab.):
C. F. Henderson, B. S., *Agt.*
Idaho—Twin Falls:
Walter Carter, M. S., *Assoc. Ent., in charge.*
H. E. Wallace, M. S., *Asst. Ent.*
D. E. Fox, M. S., *Agt.*
Oregon—Corvallis (branch of Twin Falls, Idaho, lab.):
C. H. Griffith, B. S., *Jr. Ent.*
Utah—Richfield (branch of Twin Falls, Idaho, lab.):
E. W. Davis, M. S., *Asst. Ent.*

Soil Insects.
FIELD LABORATORIES.
California:
Alhambra—
R. E. Campbell, M. S., *Assoc. Ent., in charge.*
M. W. Stone, B. S., *Jr. Ent.*
Saticoy (branch of Alhambra, Calif., lab.)—
S. E. Flanders, A. B., *Agt.*
Washington:
Toppenish (branch of Walla Walla, Wash., lab.)—
F. H. Shirck, M. S., *Jr. Ent.*
Walla Walla—
M. C. Lane, B. S., *Asst. Ent., in charge.*
K. E. Gibson, B. S., *Jr. Ent.*

Sweet-Potato Weevil Control.
FIELD OFFICES.
Alabama—Grand Bay (branch of Biloxi, Miss., office):
S. C. Brummitt, *Sr. Sci. Aid.*
Florida:
Sanford—
W. E. Stone, B. S, *Assoc. Ent., in charge.*
Tampa—
C. O. Eare, M. A., *Asst. Ent.*

Sweet-Potato Weevil Control—Continued.
FIELD OFFICES—Continued.
Mississippi:
Bay St. Louis (branch of Biloxi office)—
F. A. Wright, B. A., *Jr. Ent.*
Biloxi—
K. L. Cockerham, M. S., *Assoc. Ent., in charge.*
O. T. Deen, B. S., *Jr. Ent.*
Picayune (branch of Biloxi office)—
P. K. Harrison, B. S., *Jr. Ent.*
M. Brunson, B. S., *Jr. Ent.*

Pea Insects.
FIELD LABORATORY.
Wisconsin—Madison:
J. E. Dudley, jr., M. S., *Assoc. Ent., in charge.*
E. M. Searls, M. S., *Asst. Ent.*
Alfred Weed, M. S., D. Sc., *Agt.*

Berry Insects.
FIELD LABORATORY.
Maryland—Sligo (post office, Silver Spring):
C. H. Popenoe, B. S., *Assoc. Ent., in charge.*

Tobacco Insects.
FIELD LABORATORIES.
Arizona—Tempe (branch of Clarksville, Tenn., lab.):
K. B. McKinney, B. S., *Asst. Ent.*
Florida—Quincy (branch of Clarksville, Tenn., lab.):
F. S. Chamberlin, B. S., *Asst. Ent.*
North Carolina—Chadbourn (branch of Clarksville, Tenn., lab.):
J. N. Tenhet, B. S., *Asst. Ent.*
Tennessee—Clarksville:
A. C. Morgan, B. S., *Ent., in charge.*
J. U. Gilmore, B. S., *Asst. Ent.*
Joe Milam, *Prin. Sci. Aid.*

Mexican Bean Beetle.
FIELD LABORATORIES.
Alabama—Birmingham (branch of Columbus, Ohio, lab.):
L. W. Brannon, B. S., *Asst. Ent.*
New Mexico—Estancia:
J. R. Douglass, M. S., *Asst. Ent., in charge.*
New York—Geneva (branch of Columbus, Ohio, lab.):
Rodney Cecil, M. S., *Asst. Ent.*
Ohio—Columbus:
N. F. Howard, M. S., Ph. D., *Sr. Ent., in charge.*
O. E. Gahm, B. S., M. S., *Jr. Ent.*

BEE CULTURE

J. I. Hambleton, B. S., *Sr. Apicult., in charge.*

Behavior of Bees.
W. J. Nolan, A. M., *Apicult.*

Bee Diseases.
C. E. Burnside, M. S., Ph. D., *Asst. Apicult.*

Beekeeping Regions.
E. L. Sechrist, B. A., *Assoc. Apicult.*

Intermountain Bee Culture.
FIELD LABORATORY.
Wyoming—Laramie:
A. P. Sturtevant, A. B., Ph. D., *Assoc. Apicult., in charge.*
J. E. Eckert, M. S., *Assoc. Apicult.*

STORED-PRODUCT INSECTS

(Including household insects)

E. A. Back, B. S., Ph. D., *Prin. Ent., in charge.*
R. T. Cotton, M. S., Ph. D., *Sr. Ent.*
H. B. Bradford, *Chief Sci. Illustr.*
Marion T. Van Horn, *Jr. Sci. Aid.*

Grain Insects.
FIELD LABORATORIES.
Georgia—Thomasville:
S. E. McClendon, B. S., *Asst. Ent., in charge.*
Maryland—Sligo (post office, Silver Spring):
G. W. Ellington, B. S., *Asst. Ent.*

Flour-Mill Insects.
FIELD LABORATORY.
Kansas—Manhattan:
G. A. Schenk, B. S., *Assoc. Ent.*

Bean Weevils.
FIELD LABORATORY.
California—Alhambra:
A. O. Larson, M. S., *Assoc. Ent., in charge.*
C. K. Fisher, B. S., *Asst. Ent.*

Dried-Fruit Insects.
FIELD LABORATORY.
California—Fresno:
Perez Simmons, B. S., *Ent., in charge.*
W. D. Reed, B. S., *Asst. Ent.*

TROPICAL, SUBTROPICAL, AND ORNAMENTAL PLANT INSECTS

A. C. Baker, B. S. A., Ph. D., *Prin. Ent., in charge.*
C. A. Weigel, M. S., Ph. D., *Sr. Ent.*
Eva B. Fitzgerald*, B. A., *Sci. Illustr.*

Insects Affecting Ornamentals.
FIELD LABORATORIES.
California—Santa Cruz (bulb insects):
F. R. Cole, A. M., Ph. D., *Assoc. Ent., in charge.*
Louisiana—New Orleans:
C. I. Bliss, M. S., Ph. D., *Ent., in charge.*

Insects Affecting Ornamentals—Continued.
FIELD LABORATORIES—Continued.
Louisiana—New Orleans—Continued.
A. W. Cressman, B. S., *Asst. Ent.*
Bessie M. Broadbent, B. S., *Jr. Ent.*
Mary L. Tillotson, B. S., *Sr. Sci. Aid.*
Washington—Puyallup (bulb insects):
C. F. Doucette, B. S., *Asst. Ent., in charge.*

Citrus Insects.
FIELD LABORATORIES.
California—Lindsay:
E. A. McGregor, A. M., *Assoc. Ent., in charge.*
Florida—Orlando:
W. W. Yothers, B. S., A. B., *Ent., in charge.*
O. C. McBride, B. S., M. A., *Asst. Ent.*

Fruit Flies.
FIELD LABORATORIES.
Canal Zone—Ancon:
James Zetek, A. B., *Assoc. Ent., in charge.*
Ignacio Molino, LL. D., *Sci. Aid.*
Hawaii—Honolulu:
A. C. Mason, M. S., *Assoc. Ent., in charge.*
Mexico (Mexican fruit worm):
Cuernavaca (branch of Mexico City, Mex., lab.)—
Miyauooto McPhail, B. S., *Asst. Ent.*
Mexico City—
C. I. Bliss, M. S., Ph. D., *Ent., acting in charge.*

Parlatoria Date Scale.
FIELD HEADQUARTERS.
California—Indio:
F. S. Stickney, M. S., Ph. D., *Assoc. Ent., in charge.*

TAXONOMY AND INTERRELATIONS OF INSECTS

C. L. Marlatt, M. S., Sc. D., *Chief of Bureau, in charge.*

Taxonomy of Insects.
Harold Morrison, A. M., Ph. D., *Sr. Ent., in charge.*
(1) Coleoptera.
A. G. Böving, B. Ph., M. S., Ph. D., *Sr. Ent.*
E. A. Chapin, Ph. B., M. S., Ph. D., *Assoc. Ent.*
H. S. Barber, *Assoc. Ent.*
W. S. Fisher, *Assoc. Ent*

Taxonomy of Insects—Continued.
(2) Lepidoptera.
Wm. Schaus, M. A., D. Sc., *Assoc. Ent.*
Carl Heinrich, *Assoc. Ent.*
August Busck, *Assoc. Ent.*
(3) Hymenoptera.
A. B. Gahan, M. S., *Sr. Ent.*
R. A. Cushman, *Assoc. Ent.*
Grace A. Sandhouse, A. M., *Asst. Ent.*
(4) Diptera.
C. T. Greene, *Assoc. Ent.*
(5) Orthoptera and Neuroptera.
A. N. Caudell, M. S., *Assoc. Ent.*
(6) Ectoparasites and Mites.
H. E. Ewing, M. A., Ph. D., *Assoc. Ent.*
(7) Coccidae.
Harold Morrison, A. M., Ph. D., *Sr. Ent.*
Grace E. Glance, B. S., *Jr. Ent.*

Bioclimatics.
West Virginia—Mineral Wells (hdqrs.):
A. D. Hopkins, Ph. D., *Prin. Ent., in charge.*
M. A. Murray, *Sr. Sci. Aid.*

Insect Pathology and Morphology.
G. F. White, B. S., Ph. D., M. D., *Sr. Path., in charge of insect pathology.*
R. E. Snodgrass, A. B., *Sr. Ent., in charge of insect morphology.*

Exchange of Useful Insects; History of Economic Entomology.
L. O. Howard, *Prin. Ent., in charge.*

Insect Pest Survey.
J. A. Hyslop, M. S., *Sr. Ent., in charge.*

INSECTS AFFECTING MAN AND ANIMALS

F. C. Bishopp, M. S., *Prin. Ent., in charge.*
J. L. Webb, M. S., *Assoc. Ent.*

Insects Affecting Animals.
FIELD LABORATORIES.
Texas:
Dallas—
E. W. Laake, B. S., *Assoc. Ent.*
W. E. Dove, B. S., *Assoc. Ent.*
Sonora (branch of Dallas lab.)—
O. G. Babcock, B. S., *Asst. Ent.*
Uvalde (branch of Dallas lab.)—
D. C. Parman, B. S., *Assoc. Ent.*

Malaria Mosquitoes.
FIELD LABORATORY.
Louisiana—Mound:
W. V. King, B. S., Ph. D., *Sr. Ent., in charge.*
G. H. Bradley, B. S., *Asst. Ent.*
T. E. McNeel, B. S., *Jr. Ent.*
R. A. Robinson, B. S., *Jr. Chem.*

BUREAU OF BIOLOGICAL SURVEY

Paul G. Redington, A. B., M. F., *Chief.*
W. C. Henderson, A. B., LL. B., *Assoc. Chief.*
Ada B. Morrison,* *Sr. Admin. Asst., Asst. to Chief.*
W. H. Cheesman, Ph. B., *Ed., in charge of information and ed. work.*
Paul H. Oehser, A. B., *Asst. Ed.*
Lisle Morrison, *Sr. Admin. Asst., in charge of exhibits, photographs, and distribution of pubs.*

BUSINESS OPERATIONS

E. J. Thompson, LL. M., *Sr. Admin. Asst., in charge.*
E. J. Cohnan, LL. B., *Admin. Asst., in charge of acct.*
W. D. Hobbs, A. B., *in charge of mails and files.*
A. P. Weinerth, *in charge of property.*

DIVISION OF BIOLOGICAL INVESTIGATIONS

W. B. Bell, M. S., Ph. D., *Sr. Biol., in charge.*
E. A. Preble, *Sr. Biol.*
E. A. Goldman, *Sr. Biol.*
H. C. Oberholser, M. S., Ph. D., *Sr. Biol.*
H. H. T. Jackson, M. A., Ph. D., *Sr. Biol.*
A. H. Howell, *Sr. Biol.*
F. C. Lincoln, *Assoc. Biol.*
C. H. M. Barrett, *Sr. Sci. Aid, Taxidermist.*
May T. Cooke, A. B., *Sci. Aid.*
Jane S. Elliott,* *Sci. Aid.*
Viola S. Snyder,* *Asst. Sci. Aid.*

FIELD HEADQUARTERS.

Alaska:
Fairbanks—
L. J. Palmer, B. S., *Sr. Biol., in charge of Grazing Inv. and Reindeer Exp. Sta.*
Nome—
W. B. Miller, M. S., *Asst. Range Exam.*

Arizona—Tucson:
W. P. Taylor, B. S., Ph. D., *Sr. Biol., Field Natur.*

California—San Diego:
S. E. Piper, B. S., *Assoc. Biol., Field Natur.*

District of Columbia—Washington:
E. W. Nelson, M. A., D. Sc., *Prin. Biol., Field Natur.*
Vernon Bailey, *Sr. Biol., Field Natur.*

Washington—Puyallup:
T. H. Scheffer, M. A., *Assoc. Biol., Field Natur.*

Wyoming—Jackson:
O. J. Murie, M. S., *Assoc. Biol., Field Natur.*

DIVISION OF FOOD HABITS RESEARCH

W. L. McAtee, M. A., *Sr. Biol., in charge.*

Relation of Native and Introduced Birds and Other Animals to Agriculture.
E. R. Kalmbach, *Sr. Biol.*
A. K. Fisher, M. D., *Sr. Biol.*
J. R. Malloch, A. B., *Assoc. Biol.*
L. L. Buchanan, A. B., *Asst. Biol.*
C. C. Sperry, A. B., *Asst. Biol.*
F. M. Uhler, A. B., *Jr. Biol.*
Phoebe Knappen, M. S., *Jr. Biol.*

Economic Investigations of Migratory Birds.
E. R. Kalmbach, *Sr. Biol.*
C. C. Sperry, A. B., *Asst. Biol.*

Quail Investigations (in coop. with committee representing Quail Study Fund for Georgia and Florida) (field).
Georgia:
Beachton (hdqrs.)—
H. L. Stoddard, *Field Asst., in charge.*
Thomasville—
C. O. Handley, B. S., *Field Asst.*

DIVISION OF FUR RESOURCES

F. G. Ashbrook, B. S., *Sr. Biol., in charge.*
J. E. Shillinger, M. S., D. V. M., *Sr. Biol. (infectious diseases of fur animals).*

FIELD STATIONS.

California — Fontana (Rabbit Exp. Sta.):
————, *Sr. Biol., Dir. of Sta.*
J. W. Meyer, *Acting Dir.*

Minnesota—Minneapolis:
Earl Dewey, M. D., *Agt. (infectious diseases of fur animals).*

New York—Saratoga Springs (Fur Animal Exp. Sta.):
K. B. Hanson, B. S., D. V. M., *Biol., Dir. of Sta.*
H. G. Horne, B. S., *Jr. Biol., Asst.*

DIVISION OF ECONOMIC INVESTIGATIONS

Stanley P. Young, M. S., *Prin. Biol., in charge.*
W. E. Crouch, B. S. A., *Sr. Biol., Asst. in charge.*

Eradication Methods (Field).

California—Berkeley:
E. E. Horn, *Assoc. Biol., Dist. Inv.*
Colorado—Denver (lab. hdqrs.):
F. E. Garlough, A. B., *Biol., Leader.*
H. E. Williams, *Asst. Biol., Lab. Asst.*
——————, *Pharmacologist.*
Montana—Bozeman:
——————, *Asst. Biol., Dist. Inv.*
New Mexico—Albuquerque:
S. E. Aldous, *Jr. Biol., Dist. Inv.*
Oregon—Portland:
A. W. Moore, *Jr. Biol., Dist. Inv.*

Destruction of Predatory Animals (in coop. with States) (Field).

Alaska—Juneau:
R. K. Stewart, *Leader.*
Arizona—Phoenix:
M. E. Musgrave, *Asst. Admin. Off., Leader.*
——————, *Asst. Leader.*
California—Sacramento:
C. G. Poole, *Asst. Admin. Off., Leader.*
A. A. Traub, *Agt.*
John Traub, *Asst. Leader.*
Colorado:
Denver (hdqrs. for Colo.)—
L. L. Laythe, B. S., *Assoc. Biol., Leader.*
Monte Vista—
J. W. Crook, *Sr. Admin. Asst., Asst. Leader.*
Montrose—
G. M. Trickel, *Sr. Admin. Asst., Asst. Leader.*
Idaho:
Dubois—
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Destruction of Predatory Animals—Contd.

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Wyoming:
Cheyenne (hdqrs. for Wyo.)—
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C. C. Skinner, *Jr. Leader.*
Kemmerer—
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E. G. Albert, *Agt.*

Destruction of Injurious Rodents (in coop. with States).

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Destruction of Injurious Rodents—Contd.

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[1] Cooperative protector.
[2] Cooperative protector; Reclamation Service employee.

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H. P. Purington, B. S. in C. E., *Asst. Hwy. Engr.*
E. D. Johnson, C. E., *Asst. Hwy. Engr.*
J. S. Logan, B. S. in C. E., *Jr. Hwy. Engr.*

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L. P. Scott, B. S. in C. E., *Assoc. Hwy. Engr.*
A. F. Haelig, B. S. in C. E., *Asst. Hwy. Engr.*
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C. E. Raynor, C. E., *Sr. Hwy. Engr.*
H. C. Wells, *Sr. Hwy. Engr.*
C. D. Snead, B. S. in C. E., C. E., *Sr Hwy. Bridge Engr.*
Russell W. James, *Assoc. Hwy. Bridge Engr.*
J. M. Angle, B. S. in C. E., C. E., *Assoc. Hwy. Bridge Engr.*
H. C. Headley, *Assoc. Hwy. Engr.*
W. G. White, B. S. in C. E., C. E., *Assoc. Hwy. Engr.*
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Louisiana—Baton Rouge:

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B. F. Heidel, A. B., C. E., *Sr. Hwy. Engr.*
A. F. Gordon, B. S., *Sr. Hwy. Bridge Engr.*
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B. F. Kitt, C. E., *Assoc. Hwy. Engr.*
L .F. Martin, B. S. in C. E., *Assoc. Hwy. Engr.*
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A. F. Morris, *Assoc. Hwy. Engr.*

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J. F. Cameron, B. S. in C. E., *Asst. Hwy. Engr.*
S. Cook. *Asst. Hwy. Engr.*
F. H. Cotter, *Asst. Hwy. Engr.*
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J. B. Reher, *Asst. Hwy. Engr.*
C. Short, B. S. in C. E., *Assoc. Hwy. Engr.*
H. A. Stoddart, B. S. in C. E.. *Jr. Hwy. Engr.*

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H. Broberg, B. S. in C. E., *Asst. Hwy. Engr.*
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L. R. Brown, C. E., *Sr. Hwy. Engr.*
C. C. Morris, B. S. in C. E., *Hwy. Engr.*
J. D. Shaw, *Sr. Hwy. Engr.*
G. D. Whittle, B. S. in C. E., *Sr. Hwy. Bridge Engr.*
W. M. Austin, *Assoc. Hwy. Engr.*
F. R. Bonnickson, B. S. in C. E., *Assoc. Hwy. Engr.*
A. B. Bown, *Assoc. Mech. Engr.*
D. L. MacBeath, *Assoc. Hwy. Engr.*
G. L. McLane, *Assoc. Hwy. Engr.*
J. L. Mathias, B. S. in C. E., *Assoc. Hwy. Engr.*
H. S. Tolen, C. E., *Assoc. Hwy. Engr.*
W. R. F. Wallace, B. S. in C. E., *Assoc. Hwy. Engr.*
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J. W. Green, B. S. in C. E., *Assoc. Hwy. Bridge Engr.*
R. Pearson, B. S., *Assoc. Hwy. Bridge Engr.*
C. S. Bruning, *Assoc. Hwy. Engr.*
J. E. Jensen, *Asst. Hwy. Engr.*
F. B. Lessman, B. S. in C. E., *Assoc. Hwy. Engr.*
E. F. Strickler, *Asst. Hwy. Engr.*

District No. 2—Continued.

California—San Francisco—Continued.

W. H. Smith, B. S. in C. E., *Assoc. Hwy. Engr.*

R. Thirion, B. S. in C. E., *Asst. Hwy. Engr.*

W. J. Ward, B. S. in C. E., *Asst. Hwy. Engr.*

J. E. Applegate, B. S. in C. E., *Jr. Hwy. Engr.*

M. Christensen, B. S. in C. E., *Jr. Hwy. Engr.*

H. E. Cunningham, B. S. in C. E., *Jr. Hwy. Engr.*

H. E. Dahman, B. S. in C. E., *Jr. Hwy. Engr.*

F. J. Dixon, B. S. in C. E., *Jr. Hwy. Engr.*

J. A. Killalee, B. S. in C. E., *Jr. Hwy. Engr.*

John N. Storrs, *Jr. Hwy. Engr.*

F. R. Hall, *Jr. Hwy. Engr.*

Chas. S. Moore, *Jr. Hwy. Engr.*

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J. W. Johnson, M. E., *Dist. Engr. in charge.*

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A. E. Palen, B. S. in C. E., *Sr. Hwy. Engr.*

A. V. Williamson, *Sr. Hwy. Engr.*

L. F. Copeland, B. S. in C. E., *Sr. Hwy. Bridge Engr.*

C. F. Capes, *Assoc. Hwy. Engr.*

R. S. Corlew, *Assoc. Hwy. Engr.*

W. H. Curwen, B. S. in C. E., *Assoc. Hwy. Engr.*

L. A. Hamilton, *Assoc. Hwy. Engr.*

B. B. Hauser, B. C. E., *Assoc. Hwy. Engr.*

W. M. Jeffrey, B. S. in C. E., *Assoc. Hwy. Engr.*

C. E. Learned, B. S. in C. E., *Assoc. Hwy. Engr.*

W. D. Ross, C. E., *Assoc. Hwy. Engr.*

J. D. Slye, C. E., *Assoc. Hwy. Engr.*

E. C. White, B. S. in C. E., *Assoc. Hwy. Bridge Engr.*

E. F. Gleason, B. S. in C. E., *Asst. Hwy. Engr.*

R. C. Jones, *Asst. Hwy. Engr.*

J. E. Williams, B. S. in C. E., *Asst. Hwy. Engr.*

H. E. Dalton, B. S. in A. E., *Jr. Hwy. Engr.*

G. W. Hoffman, B. S. in C. E., *Jr. Hwy. Engr.*

R. T. Turner, B. S. in C. E., *Jr. Hwy. Engr.*

W. H. Willesen, B. S. in A. E., *Jr. Hwy. Engr.*

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H. P. Martin, B. S. in C. E., *Assoc. Hwy. Engr.*

L. C. Rockett, B. S. in C. E., *Assoc. Hwy. Engr.*

District No. 11 (Hdqrs., Juneau, Alaska).

M. D. Williams, B. S., *Dist. Engr. in charge.*

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I. F. Winsor, *Assoc. Hwy. Engr.*

L. W. Turoff, B. S. in C. E., *Asst. Hwy. Engr.*

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E. E. Kidder, B. S. in C. E., *Sr. Hwy. Engr.*

B. W. Matteson, B. S., *Sr. Hwy. Engr.*

L. M. Huggins, B. S. in C. E., *Sr. Hwy. Bridge Engr.*

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C. W. Cross, B. S. in M. E., *Assoc. Hwy. Engr.*

J. F. English, C. E., *Assoc. Hwy. Engr.*

R. R. Mitchell, B. S. in C. E., *Assoc. Hwy. Engr.*

F. W. Smith, B. S. in C. E., *Assoc. Hwy. Engr.*

J. H. Young, *Assoc. Hwy. Engr.*

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K. S. Chamberlain, B. S. in A. E., *Jr. Hwy. Engr.*

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A. H. Greer, B. S., *Asst. Pl. Quar. Insp.*
E. G. Hagadorn, B. S., *Asst. Pl. Quar. Insp.*
B. R. Anderson, B. S., *Jr. Pl. Quar. Insp.*
C. P. Daley, B. S., *Jr. Pl. Quar. Insp.*
Hidalgo—
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L. A. Frost, *Jr. Pl. Quar. Insp.*
Laredo—
V. J. Shiner, B. S., *Assoc. Pl. Quar. Insp., in charge.*
B. C. House, B. S., *Asst. Pl. Quar. Insp.*
R. C. Bondy, B. S., *Jr. Pl. Quar. Insp.*
G. M. Jones, B. S., *Jr. Pl. Quar. Insp.*
H. R. Cary, *Sr. Fumigation Mech.*

Quarantine Station, District of Columbia.
Peter Bisset, *Sr. Hort., in charge.*
W. B. Wood, B. S., *Chief Insp.*
Norman Perrine, Ph. C., P. D., *Assoc. Chem.*
H. Y. Gouldman, B. S., *Asst. Pl. Quar. Insp.*
R. G. Cogswell, A. B., *Asst. Pl. Quar. Insp.*
D. P. Limber, B. S., M. S., *Asst. Pl. Quar. Insp.*
W. T. Owrey, B. S., *Asst. Pl. Quar. Insp.*

DOMESTIC PLANT QUARANTINES

S. B. Fracker, A. B., M. S., Ph. D., *Prin. Pl. Quar. Admin., in charge.*

WHITE PINE BLISTER RUST

C. R. Stillinger, A. B., M. S., *Assoc. Path.*
Maude A. Thompson, *Jr. Pl. Quar. Insp.*
R. A. Sheals, B. S., *Agt.*

PINK BOLLWORM AND THURBERIA WEEVIL

(Hdqrs., San Antonio, Tex.)

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G. C. Bond, LL. B., *Assoc. Pl. Quar. Insp.*
J. S. Brock, B. S., *Assoc. Pl. Quar. Insp.*
S. D. Smith, *Assoc. Pl. Quar. Insp.*
R. W. White, B. S., *Assoc. Pl. Quar. Insp.*
G. W. Chowns, B. S., *Asst. Pl. Quar. Insp.*
W. E. Conn, B. S., *Asst. Pl. Quar. Insp.*
L. F. Curl, B. S., *Asst. Pl. Quar. Insp.*
B. C. Graham, B. S., *Asst. Pl. Quar. Insp.*
G. G. Harris, B. S., *Asst. Pl. Quar. Insp.*
L. D. Harris, B. S., *Asst. Pl. Quar. Insp.*
F. I. Jeffrey, B. S., *Asst. Pl. Quar. Insp.*
D. M. McEachern, B. S., *Asst. Pl. Quar. Insp.*
J. B. Moore, B. S., *Asst. Pl. Quar. Insp.*
H. B. Prickett, *Asst. Pl. Quar. Insp.*
W. F. Rice, *Asst. Pl. Quar. Insp.*
R. R. Rosa, B. S., *Asst. Pl. Quar. Insp.*
Ivan Shiller, B. S., M. S., *Asst. Pl. Quar. Insp.*
W. E. Von Rosenburg, B. S., *Asst. Pl. Quar. Insp.*
J. D. Waugh, B. S., *Asst. Pl. Quar. Insp.*
J. C. Woodward, B. S., *Asst. Pl. Quar. Insp.*
E. M. Dieffenbach, B. S., *Asst. Mech. Engr.*
J. H. Adams, jr., B. S., *Jr. Pl. Quar. Insp.*
T. R. Adkins, B. S., *Jr. Pl. Quar. Insp.*
W. E. Ayers, *Jr. Pl. Quar. Insp.*
W. C. Baker, B. S., *Jr. Pl. Quar. Insp.*
L. B. Coffin, B. S., *Jr. Pl. Quar. Insp.*
R. L. Eberhard, *Jr. Pl. Quar. Insp.*
W. C. Edgeworth, B. S., *Jr. Pl. Quar. Insp.*
K. R. Elliott, B. S., *Jr. Pl. Quar. Insp.*
K. A. Gallant, B. S., *Jr. Pl. Quar. Insp.*
E. Hobbs, B. S., M. S., *Jr. Pl. Quar. Insp.*
C. H. Hoult, A. B., LL. B., *Jr. Pl. Quar. Insp.*
A. K. Inman, B. S., *Jr. Pl. Quar. Insp.*
F. V. Irvin, B. S., *Jr. Pl. Quar. Insp.*
A. C. Johnson, *Jr. Pl. Quar. Insp.*
G. F. McLain, B. S., *Jr. Pl. Quar. Insp.*
W. C. Maxwell, B. S., *Jr. Pl. Quar. Insp.*
M. S. Mirimanian, *Jr. Pl. Quar. Insp.*
S. R. Morris, B. S., *Jr. Pl. Quar. Insp.*
P. L. Netterville, B. S., *Jr. Pl. Quar. Insp.*
R. G. Oakley, B. S., *Jr. Pl. Quar. Insp.*
G. B. Ray, B. S., *Jr. Ent.*
W. B. Rogers, *Jr. Pl. Quar. Insp.*
I. B. Rutledge, B. S., *Jr. Pl. Quar. Insp.*
J. N. Todd, B. S., M. S., *Jr. Pl. Quar. Insp.*
O. L. Walton, B. S., *Jr. Pl. Quar. Insp.*
E. L. Wilde, B. S., *Jr. Pl. Quar. Insp.*
F. M. Wilson, *Jr. Pl. Quar. Insp.*
J. S. Wilson, B. S., *Jr. Pl. Quar. Insp.*
J. L. Wood, B. S., *Jr. Pl. Quar. Insp.*
W. E. Gassett, *Sr. Sci. Aid.*
E. A. Hodson, B. S., M. S., *Agt.*

EUROPEAN CORN BORER

(Hdqrs.—Eastern section: Boston, Mass.; western section: Toledo, Ohio)

L. H. Worthley, *Sr. Admin. Off., in charge.*

Eastern Section.
Connecticut—Bridgeport:
H. N. Bartley, B. S., *Assoc. Ent., in charge.*
G. P. Babson, *Prin. Field Aid.*
J. S. Stockbridge, *Field Supvr. in Insect Control.*
T. N. Cannon, *Sr. Sci. Aid.*
Massachusetts:
Arlington—
C. W. Lewis, *Prin. Sci. Aid.*
W. J. Powers, *Field Supvr. in Insect Control.*

Eastern Section—Continued.
Massachusetts—Continued.
Boston—
R. S. Clifton, *Admin. Asst.*
New York—Bay Shore, L. I.:
R. A. Vickery, A. M., *Asst. Ent.*

Western Section.
Ohio—Toledo:
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F. S. Puckett, B. S., *Sr. Admin. Off.*
J. H. Harman, B. S., *Assoc. Ent.*
C. O. Larrabee, *Chief Field Aid.*
J. W. Enwright, *Prin. Field Aid.*
F. L. Fall, *Prin. Field Aid.*
T. B. Heald, *Field Supvr. in Insect Control.*
M. J. Kelly, *Field Supvr. in Insect Control.*
Arthur Viall, *Field Supvr. in Insect Control.*

MOTHS

(Hdqrs., Melrose Highlands, Mass.)

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S. S. Crossman, B. S., *Sr. Ent.*
H. B. Dalton, *Sr. Admin. Asst.*

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W. J. Ahearn, *Sr. Sci. Aid.*
I. L. Bailey, *Sr. Sci. Aid.*
P. S. Coffin, *Sr. Sci. Aid.*
C. M. Emerson, *Sr. Sci. Aid.*
M. H. Feeney, *Sr. Sci. Aid.*
G. J. Galvin. *Sr. Sci. Aid.*
D. Harrington, *Sr. Sci. Aid.*
J. Keefe, *Sr. Sci. Aid.*
F. L. Keene, *Sr. Sci. Aid.*
R. W. Kennedy, *Sr. Sci. Aid.*
J. F. Keough, *Sr. Sci. Aid.*
J. F. McDevitt, *Sr. Sci. Aid.*
C. A. Manchester, *Sr. Sci. Aid.*
P. H. Meagher, *Sr. Sci. Aid.*
G. A. Miller, *Sr. Sci. Aid.*
J. F. Murray, *Sr. Sci. Aid.*
I. B. Newbegin, *Sr. Sci. Aid.*
L. H. Noble, *Sr. Sci. Aid.*
J. J. Roach, *Sr. Sci. Aid.*
W. Sarsfield, *Sr. Sci. Aid.*
A. C. Ward, *Sr. Sci. Aid.*

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M. J. Anderson, *Field Supvr. in Insect Control.*
F. N. Bancroft, *Field Supvr. in Insect Control.*
F. C. Flint, *Field Supvr. in Insect Control.*
F. W. Graham, *Field Supvr. in Insect Control.*

Scouting and Extermination—Continued.
W. H. Hanley, *Field Supvr. in Insect Control.*
H. H. Harkins, *Field Supvr. in Insect Control.*
G. N. Harris, *Field Supvr. in Insect Control.*
R. M. Kittredge, *Field Supvr. in Insect Control.*
F. C. McDonough, *Field Supvr. in Insect Control.*
E. R. Manning, *Field Supvr. in Insect Control.*
W. J. Nestle, *Field Supvr. in Insect Control.*
O. C. Otis, *Field Supvr. in Insect Control.*
J. W. Regan, *Field Supvr. in Insect Control.*
F. C. Rich, *Field Supvr. in Insect Control.*
W. W. Bancroft, *Prin. Sci. Aid.*
H. N. Bean, *Prin. Sci. Aid.*
C. T. Davis, *Prin. Sci. Aid.*
C. A. McIsaac, *Prin. Sci. Aid.*
S. E. May, *Prin. Sci. Aid.*
D. G. Murphy, *Prin. Sci. Aid.*
H. I. Winchester, *Prin. Sci. Aid.*
W. A. Collins, *Sr. Sci. Aid.*
J. A. Priest, *Sr. Sci. Aid.*

JAPANESE BEETLE

(Hdqrs., Riverton, N. J.)

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C. W. Stockwell, *Sr. Admin. Off.*
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J. W. Balock, B. S., *Jr. Ent.*
T. C. F. Cronin, B. S., *Jr. Pl. Quar. Insp.*
V. A. Johnson, B. S., *Jr. Ent.*
F. L. O'Rourke, B. S., *Jr. Ent.*
W. C. Armstrong, *Field Supvr. in Insect Control.*
W. N. Dobbs, *Field Supvr. in Insect Control.*
F. G. Winn, *Field Supvr. in Insect Control.*
W. A. Shinkwin, *Sci. Aid.*
W. E. Cranston, *Agt., in charge of quar. in Del.*
J. K. Gould, *Agt., in charge of quar. in Pa.*
G. K. Handle, *Agt., in charge of quar. in N. J.*
J. P. Johnson, *Agt., in charge of quar. in Conn.*
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MEXICAN FRUIT WORM

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F. H. Benjamin, B. S., M. A., *Assoc. Pl. Quar. Insp.*
M. H. Ford, B. S., *Assoc. Pl. Quar. Insp.*
W. W. Decell, B. S., *Asst. Pl. Quar. Insp.*
W. R. Heard, B. S., *Asst. Pl. Quar. Insp.*

J. W. Patterson, B. S., *Asst. Pl. Quar. Insp.*
E. F. Pepper, B. S., *Asst. Pl. Quar. Insp.*
L. G. Plyler, B. S., *Asst. Pl. Quar. Insp.*
A. V. Smith, B. S., *Asst. Pl. Quar. Insp.*
Adolph Thomae, B. S., *Asst. Pl. Quar. Insp.*
F. O. Swan, B. S., *Asst. Pl. Quar. Insp.*
C. R. Roitsch, *Jr. Pl. Quar. Insp.*
F. G. Bernard, *Sr. Pl. Quar. Aid.*
J. B. Corns, B. S., *Sr. Pl. Quar. Aid.*
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(Hdqrs., Indio, Calif.)

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A. J. Shamblin, *Assoc. Hort.*
C. H. Rothe, B. S., *Jr. Pl. Quar. Insp.*
I. C. Caswell, *Sr. Sci. Aid.*
A. E. Cavanagh, *Sr. Sci. Aid.*
H. B. Ames, *Jr. Sci. Aid.*
C. T. Cordill, *Jr. Sci. Aid.*
G. F. Fulkerson, *Jr. Sci. Aid.*
H. O. Duncan, *Jr. Sci. Aid.*

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Rollin E. Smith, *Asst.*
Rodger R. Kauffman, *Asst. Chief Inv.*
Albert Strack, *Admin. Asst.*

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Illinois—Chicago:
Leslie A. Fitz, B. S., *Supvr., in charge.*
Joseph M. Mehl, L. L. M., M. P. S., *Supvr.*
Paul Mehl, B. S., M. S., *Econ.*
Enos M. Blaylock, C. P. A., *Sr. Acct.*
Harold S. Irwin, B. S., M. S., *Assoc. Econ.*

Grain Exchange Supervision—Continued.
Illinois—Chicago—Continued.
Michael M. Thul, *Jr. Supvr.*
Beulah S. Robinson,* B. A., *Head Clerk.*
Minnesota—Minneapolis:
Jewett R. Mathewson, *Supvr., in charge.*
Missouri—Kansas City:
Wm. F. Logan, *Supvr., in charge.*
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V. B. Bonney, B. S., *Assoc. Chem.*
W. F. Clarke, A. B., Ph. D., *Asst. Chem.*
J. T. Keister, B. S., M. S., Phar. D., *Asst. Chem.*
J. I. Palmore, B. S., M. S., *Asst. Chem.*

Cattle-Feed Unit.
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J. B. Reed, A. B., *Assoc. Chem.*
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W. F. Sterling, B. S., *Jr. Chem.*

Water and Beverage Unit.
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J. B. Wilson, A. B., *Assoc. Chem.*
C. H. Badger, B. S., *Asst. Chem.*
Anna E. Mix, Phar. D., *Jr. Chem.*

Bacteriological Unit.
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B. A. Linden, *Jr. Bact.*

Microchemical Unit.
E. Alberta Read, A. B., A. M., Ph. D., *Sr. Microan.*

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COLOR CERTIFICATION

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DRUG CONTROL

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E L. Griffin, A. B., B. S., M. S., Ph. D., *Sr. Chem.*
G. F. Reddish, B. S., Ph. D., *Sr. Bact.*
C. M. Smith, B. S., *Sr. Chem.*
H. H. Custis, A B., A. M., Ph. D., *Assoc. Chem.*
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A. C. Nothstine, B. S., *Assoc. Chem.*
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F. A. Spurr, B. S., *Asst. Chem.*
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H. A. Jones, B. S., *Jr. Chem.*
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E. Wallace, B. S. A., M. S. A., Ph. D., *Sr. Path.*
F. P. Schlatter, B. S., *Assoc. Path.*

Animal Pathological Unit.
H. E. Moskey, D. V. M., *Assoc. Vet.*

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L. J. Bottimer, B. S., *Asst. Ent.*
New Jersey—Haddon Heights:
D. P. Perry, B. S., *Asst. Path.*
Oregon—Corvallis:
F. D. Bailey, A. B., A. M., *Asst. Path.*
Virginia—Vienna:
W. S. Abbott, B. S., *Sr. Ent.*
W. M. Davidson, B. S., M. S., *Assoc. Ent.*
Wallace Colman, A. B., M. S., *Asst. Ent.*
G. D. Reynolds, B. S., *Jr. Ent.*

NAVAL STORES CONTROL

F. P. Veitch, B. S., M. S., Sc. D., *Prin. Chem., in charge.*
V. E. Grotlisch, Ch. E., *Assoc. Naval Stores Classifier.*

FIELD HEADQUARTERS.
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Georgia—Savannah:
H. M. King, *Assoc. Naval Stores Classifier.*
Louisiana:
DeRidder—
G. A. Berry, *Asst. Naval Stores Classifier.*
Leesville—
F. W. Thomas, *Asst. Naval Stores Classifier.*
Mississippi—Gulfport:
R. L. Helveston, *Asst. Naval Stores Classifier.*
New York—New York:
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S. A. Postle, *Asst. to Chief.*
C. A. Herrmann, A. B., *Assoc. Chem.*
H. B. Mead, Ph. B., *Assoc. Chem.*

Eastern District—Continued.
STATIONS.
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J. J. McManus, Phar. G., Phar. D., *Chief of Sta.*
Dan Dahle, Ch. E., *Asst. Chem.*
W. H. Simms, B. S., *Asst. Chem.*
L. A. Salinger, B. L., *Jr. Chem.*
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W. H. Heath, B. S., *Assoc. Chem.*
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P. L. Leavitt, B. S., M. S., *Jr. Chem.*
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Joseph Callaway, jr., B. S., M. S., *Assoc. Chem.*
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J. A. Cummings, A. B., *Assoc. Chem.*
J. Feldbaum, B. S., *Assoc. Chem.*
H. D. Grigsby, B. S., *Assoc. Chem.*
C. F. Jablonski, B. S., *Assoc. Chem.*
W. E. Kirby, B. S., A. M., *Assoc. Chem.*
G. C. Swan, A. B., A. M., *Assoc. Chem.*
L. Katz, *Asst. Chem.*
H. I. Macomber, B. S., *Asst. Chem.*
L. N. Markwood, B. S., *Asst. Chem.*
Ray Powers, B. S., *Asst. Chem.*

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STATIONS—Continued.
New York—Continued.
New York—Continued.
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J. T. Bashour, B. S., *Jr. Chem.*
T. N. Bennett, B. S., *Jr. Chem.*
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M. L. Offutt, B. S., A. M., *Jr. Chem.*
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J. O. Page, B. S., *Jr. Chem.*
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L. L. Lusby, *Sr. Insp.*
P. A. Jackman, *Insp.*
A. B. Johns, *Insp.*
C. F. J. O'Neill, *Insp.*
C. T. Smith, *Insp.*
C. F. Hutchinson, *Chief Tea Exam.*
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